

MODBUS COMMUNICATION MANUAL

INTRODUCTION

FieldLogger has many communication interfaces. Among all of them, we can highlight some that can be used as Modbus slaves:

- RS485, acting as a slave in Modbus RTU protocol.
- USB device, acting as a slave in Modbus RTU protocol.
- Ethernet, acting as a server in Modbus TCP protocol.

All device configurations, as well as the input channels reading, are made through Modbus protocol.

In this manual, all needed information to read **FieldLogger's** input channels data without using the **Configurator** application can be found. In order to assure the correct configuration and data download, always use the indicated software applications. After configuring the equipment, data obtained from its inputs and outputs can be reached by any other software application that has Modbus RTU or Modbus TCP communication abilities.

Further details about the implementation of a network of Modbus devices over RS485 can be found in the *RS485 & RS422 Basics* file, available in the **FieldLogger** CD or in the www.novusautomation.co.uk website for download.

MODBUS COMMANDS

The following listed Modbus commands (or functions) are implemented. In order to get more information about each one and about Modbus protocol in general, check the website:

<http://www.modbus.org>

READ HOLDING REGISTERS – 03H

This command can be used to read one or more holding registers, as listed in a table in the next chapter.

WRITE SINGLE COIL – 05H

This command can be used to write in digital output or relay. First coil refers to digital output 1. Ninth and tenth coils refer to relays 1 and 2.

Important Note: It is not possible to write in a digital channel that was configured as an input. It is also not possible to write in a digital output or relay that was configured to be controlled by alarms (internal **FieldLogger** alarms).

WRITE SINGLE REGISTER – 06H

This command can be used to write in one holding register, as listed in a table in the next chapter.

WRITE MULTIPLE REGISTERS – 16H

This command can be used to write in a block of holding registers, as listed in a table in the next chapter.

HOLDING REGISTERS TABLE

The specified *addresses* are related to the low-level physical addresses, where zero (0) means the PLC address 40001. *Minimum* and *Maximum* columns have the valid range for each parameter. *R/W* column indicates whether the parameter is writable (R/W) or read-only (R). *SuperView Mnemonic* informs what is the register mnemonic in the **SuperView** SCADA software.

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
0	Serial number (word high)	0	65535	R	SerialNumber_H
1	Serial number (word low)	0	65535	R	SerialNumber_L
2	Firmware version	0	999	R	FirmwareVersion
3	Analog channel 1 value (signed 16-bit integer)	-32768	32767	R	Analog_1_Int
4	Analog channel 2 value (signed 16-bit integer)	-32768	32767	R	Analog_2_Int
5	Analog channel 3 value (signed 16-bit integer)	-32768	32767	R	Analog_3_Int
6	Analog channel 4 value (signed 16-bit integer)	-32768	32767	R	Analog_4_Int
7	Analog channel 5 value (signed 16-bit integer)	-32768	32767	R	Analog_5_Int
8	Analog channel 6 value (signed 16-bit integer)	-32768	32767	R	Analog_6_Int
9	Analog channel 7 value (signed 16-bit integer)	-32768	32767	R	Analog_7_Int

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
10	Analog channel 8 value (signed 16-bit integer)	-32768	32767	R	Analog_8_Int
13	Bit array with the state of each digital I/O (bit 0: digital channel 1, bit 2: digital channel 2, etc.)	0	255	R	DigitalInArray
14	Digital input 1 state	0	1	R	DigitalIn_1_Int
15	Digital input 2 state	0	1	R	DigitalIn_2_Int
16	Digital input 3 state	0	1	R	DigitalIn_3_Int
17	Digital input 4 state	0	1	R	DigitalIn_4_Int
18	Digital input 5 state	0	1	R	DigitalIn_5_Int
19	Digital input 6 state	0	1	R	DigitalIn_6_Int
20	Digital input 7 state	0	1	R	DigitalIn_7_Int
21	Digital input 8 state	0	1	R	DigitalIn_8_Int
22	Digital output 1 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_1
23	Digital output 2 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_2
24	Digital output 3 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_3
25	Digital output 4 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_4
26	Digital output 5 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_5
27	Digital output 6 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_6
28	Digital output 7 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_7
29	Digital output 8 state (0 = deactivate, 1 = activate)	0	1	R/W	DigitalOut_8
30	Relay 1 state (0 = deactivate, 1 = activate)	0	1	R/W	Relay_1
31	Relay 2 state (0 = deactivate, 1 = activate)	0	1	R/W	Relay_2
32	Remote channel 1 value (signed 16-bit integer)	-32768	32767	R	Remote_01_Int
33	Remote channel 2 value (signed 16-bit integer)	-32768	32767	R	Remote_02_Int
34	Remote channel 3 value (signed 16-bit integer)	-32768	32767	R	Remote_03_Int
35	Remote channel 4 value (signed 16-bit integer)	-32768	32767	R	Remote_04_Int
36	Remote channel 5 value (signed 16-bit integer)	-32768	32767	R	Remote_05_Int
37	Remote channel 6 value (signed 16-bit integer)	-32768	32767	R	Remote_06_Int
38	Remote channel 7 value (signed 16-bit integer)	-32768	32767	R	Remote_07_Int
39	Remote channel 8 value (signed 16-bit integer)	-32768	32767	R	Remote_08_Int
40	Remote channel 9 value (signed 16-bit integer)	-32768	32767	R	Remote_09_Int
41	Remote channel 10 value (signed 16-bit integer)	-32768	32767	R	Remote_10_Int
42	Remote channel 11 value (signed 16-bit integer)	-32768	32767	R	Remote_11_Int
43	Remote channel 12 value (signed 16-bit integer)	-32768	32767	R	Remote_12_Int
44	Remote channel 13 value (signed 16-bit integer)	-32768	32767	R	Remote_13_Int
45	Remote channel 14 value (signed 16-bit integer)	-32768	32767	R	Remote_14_Int
46	Remote channel 15 value (signed 16-bit integer)	-32768	32767	R	Remote_15_Int
47	Remote channel 16 value (signed 16-bit integer)	-32768	32767	R	Remote_16_Int
48	Remote channel 17 value (signed 16-bit integer)	-32768	32767	R	Remote_17_Int
49	Remote channel 18 value (signed 16-bit integer)	-32768	32767	R	Remote_18_Int
50	Remote channel 19 value (signed 16-bit integer)	-32768	32767	R	Remote_19_Int
51	Remote channel 20 value (signed 16-bit integer)	-32768	32767	R	Remote_20_Int
52	Remote channel 21 value (signed 16-bit integer)	-32768	32767	R	Remote_21_Int
53	Remote channel 22 value (signed 16-bit integer)	-32768	32767	R	Remote_22_Int
54	Remote channel 23 value (signed 16-bit integer)	-32768	32767	R	Remote_23_Int
55	Remote channel 24 value (signed 16-bit integer)	-32768	32767	R	Remote_24_Int
56	Remote channel 25 value (signed 16-bit integer)	-32768	32767	R	Remote_25_Int
57	Remote channel 26 value (signed 16-bit integer)	-32768	32767	R	Remote_26_Int
58	Remote channel 27 value (signed 16-bit integer)	-32768	32767	R	Remote_27_Int
59	Remote channel 28 value (signed 16-bit integer)	-32768	32767	R	Remote_28_Int
60	Remote channel 29 value (signed 16-bit integer)	-32768	32767	R	Remote_29_Int
61	Remote channel 30 value (signed 16-bit integer)	-32768	32767	R	Remote_30_Int
62	Remote channel 31 value (signed 16-bit integer)	-32768	32767	R	Remote_31_Int

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
63	Remote channel 32 value (signed 16-bit integer)	-32768	32767	R	Remote_32_Int
64	Remote channel 33 value (signed 16-bit integer)	-32768	32767	R	Remote_33_Int
65	Remote channel 34 value (signed 16-bit integer)	-32768	32767	R	Remote_34_Int
66	Remote channel 35 value (signed 16-bit integer)	-32768	32767	R	Remote_35_Int
67	Remote channel 36 value (signed 16-bit integer)	-32768	32767	R	Remote_36_Int
68	Remote channel 37 value (signed 16-bit integer)	-32768	32767	R	Remote_37_Int
69	Remote channel 38 value (signed 16-bit integer)	-32768	32767	R	Remote_38_Int
70	Remote channel 39 value (signed 16-bit integer)	-32768	32767	R	Remote_39_Int
71	Remote channel 40 value (signed 16-bit integer)	-32768	32767	R	Remote_40_Int
72	Remote channel 41 value (signed 16-bit integer)	-32768	32767	R	Remote_41_Int
73	Remote channel 42 value (signed 16-bit integer)	-32768	32767	R	Remote_42_Int
74	Remote channel 43 value (signed 16-bit integer)	-32768	32767	R	Remote_43_Int
75	Remote channel 44 value (signed 16-bit integer)	-32768	32767	R	Remote_44_Int
76	Remote channel 45 value (signed 16-bit integer)	-32768	32767	R	Remote_45_Int
77	Remote channel 46 value (signed 16-bit integer)	-32768	32767	R	Remote_46_Int
78	Remote channel 47 value (signed 16-bit integer)	-32768	32767	R	Remote_47_Int
79	Remote channel 48 value (signed 16-bit integer)	-32768	32767	R	Remote_48_Int
80	Remote channel 49 value (signed 16-bit integer)	-32768	32767	R	Remote_49_Int
81	Remote channel 50 value (signed 16-bit integer)	-32768	32767	R	Remote_50_Int
82	Remote channel 51 value (signed 16-bit integer)	-32768	32767	R	Remote_51_Int
83	Remote channel 52 value (signed 16-bit integer)	-32768	32767	R	Remote_52_Int
84	Remote channel 53 value (signed 16-bit integer)	-32768	32767	R	Remote_53_Int
85	Remote channel 54 value (signed 16-bit integer)	-32768	32767	R	Remote_54_Int
86	Remote channel 55 value (signed 16-bit integer)	-32768	32767	R	Remote_55_Int
87	Remote channel 56 value (signed 16-bit integer)	-32768	32767	R	Remote_56_Int
88	Remote channel 57 value (signed 16-bit integer)	-32768	32767	R	Remote_57_Int
89	Remote channel 58 value (signed 16-bit integer)	-32768	32767	R	Remote_58_Int
90	Remote channel 59 value (signed 16-bit integer)	-32768	32767	R	Remote_59_Int
91	Remote channel 60 value (signed 16-bit integer)	-32768	32767	R	Remote_60_Int
92	Remote channel 61 value (signed 16-bit integer)	-32768	32767	R	Remote_61_Int
93	Remote channel 62 value (signed 16-bit integer)	-32768	32767	R	Remote_62_Int
94	Remote channel 63 value (signed 16-bit integer)	-32768	32767	R	Remote_63_Int
95	Remote channel 64 value (signed 16-bit integer)	-32768	32767	R	Remote_64_Int
96	Virtual channel 1 value (signed 16-bit integer)	-32768	32767	R	Virtual_001_Int
97	Virtual channel 2 value (signed 16-bit integer)	-32768	32767	R	Virtual_002_Int
98	Virtual channel 3 value (signed 16-bit integer)	-32768	32767	R	Virtual_003_Int
99	Virtual channel 4 value (signed 16-bit integer)	-32768	32767	R	Virtual_004_Int
100	Virtual channel 5 value (signed 16-bit integer)	-32768	32767	R	Virtual_005_Int
101	Virtual channel 6 value (signed 16-bit integer)	-32768	32767	R	Virtual_006_Int
102	Virtual channel 7 value (signed 16-bit integer)	-32768	32767	R	Virtual_007_Int
103	Virtual channel 8 value (signed 16-bit integer)	-32768	32767	R	Virtual_008_Int
104	Virtual channel 9 value (signed 16-bit integer)	-32768	32767	R	Virtual_009_Int
105	Virtual channel 10 value (signed 16-bit integer)	-32768	32767	R	Virtual_010_Int
106	Virtual channel 11 value (signed 16-bit integer)	-32768	32767	R	Virtual_011_Int
107	Virtual channel 12 value (signed 16-bit integer)	-32768	32767	R	Virtual_012_Int
108	Virtual channel 13 value (signed 16-bit integer)	-32768	32767	R	Virtual_013_Int
109	Virtual channel 14 value (signed 16-bit integer)	-32768	32767	R	Virtual_014_Int
110	Virtual channel 15 value (signed 16-bit integer)	-32768	32767	R	Virtual_015_Int
111	Virtual channel 16 value (signed 16-bit integer)	-32768	32767	R	Virtual_016_Int
112	Virtual channel 17 value (signed 16-bit integer)	-32768	32767	R	Virtual_017_Int
113	Virtual channel 18 value (signed 16-bit integer)	-32768	32767	R	Virtual_018_Int
114	Virtual channel 19 value (signed 16-bit integer)	-32768	32767	R	Virtual_019_Int

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
167	Virtual channel 72 value (signed 16-bit integer)	-32768	32767	R	Virtual_072_Int
168	Virtual channel 73 value (signed 16-bit integer)	-32768	32767	R	Virtual_073_Int
169	Virtual channel 74 value (signed 16-bit integer)	-32768	32767	R	Virtual_074_Int
170	Virtual channel 75 value (signed 16-bit integer)	-32768	32767	R	Virtual_075_Int
171	Virtual channel 76 value (signed 16-bit integer)	-32768	32767	R	Virtual_076_Int
172	Virtual channel 77 value (signed 16-bit integer)	-32768	32767	R	Virtual_077_Int
173	Virtual channel 78 value (signed 16-bit integer)	-32768	32767	R	Virtual_078_Int
174	Virtual channel 79 value (signed 16-bit integer)	-32768	32767	R	Virtual_079_Int
175	Virtual channel 80 value (signed 16-bit integer)	-32768	32767	R	Virtual_080_Int
176	Virtual channel 81 value (signed 16-bit integer)	-32768	32767	R	Virtual_081_Int
177	Virtual channel 82 value (signed 16-bit integer)	-32768	32767	R	Virtual_082_Int
178	Virtual channel 83 value (signed 16-bit integer)	-32768	32767	R	Virtual_083_Int
179	Virtual channel 84 value (signed 16-bit integer)	-32768	32767	R	Virtual_084_Int
180	Virtual channel 85 value (signed 16-bit integer)	-32768	32767	R	Virtual_085_Int
181	Virtual channel 86 value (signed 16-bit integer)	-32768	32767	R	Virtual_086_Int
182	Virtual channel 87 value (signed 16-bit integer)	-32768	32767	R	Virtual_087_Int
183	Virtual channel 88 value (signed 16-bit integer)	-32768	32767	R	Virtual_088_Int
184	Virtual channel 89 value (signed 16-bit integer)	-32768	32767	R	Virtual_089_Int
185	Virtual channel 90 value (signed 16-bit integer)	-32768	32767	R	Virtual_090_Int
186	Virtual channel 91 value (signed 16-bit integer)	-32768	32767	R	Virtual_091_Int
187	Virtual channel 92 value (signed 16-bit integer)	-32768	32767	R	Virtual_092_Int
188	Virtual channel 93 value (signed 16-bit integer)	-32768	32767	R	Virtual_093_Int
189	Virtual channel 94 value (signed 16-bit integer)	-32768	32767	R	Virtual_094_Int
190	Virtual channel 95 value (signed 16-bit integer)	-32768	32767	R	Virtual_095_Int
191	Virtual channel 96 value (signed 16-bit integer)	-32768	32767	R	Virtual_096_Int
192	Virtual channel 97 value (signed 16-bit integer)	-32768	32767	R	Virtual_097_Int
193	Virtual channel 98 value (signed 16-bit integer)	-32768	32767	R	Virtual_098_Int
194	Virtual channel 99 value (signed 16-bit integer)	-32768	32767	R	Virtual_099_Int
195	Virtual channel 100 value (signed 16-bit integer)	-32768	32767	R	Virtual_100_Int
196	Virtual channel 101 value (signed 16-bit integer)	-32768	32767	R	Virtual_101_Int
197	Virtual channel 102 value (signed 16-bit integer)	-32768	32767	R	Virtual_102_Int
198	Virtual channel 103 value (signed 16-bit integer)	-32768	32767	R	Virtual_103_Int
199	Virtual channel 104 value (signed 16-bit integer)	-32768	32767	R	Virtual_104_Int
200	Virtual channel 105 value (signed 16-bit integer)	-32768	32767	R	Virtual_105_Int
201	Virtual channel 106 value (signed 16-bit integer)	-32768	32767	R	Virtual_106_Int
202	Virtual channel 107 value (signed 16-bit integer)	-32768	32767	R	Virtual_107_Int
203	Virtual channel 108 value (signed 16-bit integer)	-32768	32767	R	Virtual_108_Int
204	Virtual channel 109 value (signed 16-bit integer)	-32768	32767	R	Virtual_109_Int
205	Virtual channel 110 value (signed 16-bit integer)	-32768	32767	R	Virtual_110_Int
206	Virtual channel 111 value (signed 16-bit integer)	-32768	32767	R	Virtual_111_Int
207	Virtual channel 112 value (signed 16-bit integer)	-32768	32767	R	Virtual_112_Int
208	Virtual channel 113 value (signed 16-bit integer)	-32768	32767	R	Virtual_113_Int
209	Virtual channel 114 value (signed 16-bit integer)	-32768	32767	R	Virtual_114_Int
210	Virtual channel 115 value (signed 16-bit integer)	-32768	32767	R	Virtual_115_Int
211	Virtual channel 116 value (signed 16-bit integer)	-32768	32767	R	Virtual_116_Int
212	Virtual channel 117 value (signed 16-bit integer)	-32768	32767	R	Virtual_117_Int
213	Virtual channel 118 value (signed 16-bit integer)	-32768	32767	R	Virtual_118_Int
214	Virtual channel 119 value (signed 16-bit integer)	-32768	32767	R	Virtual_119_Int
215	Virtual channel 120 value (signed 16-bit integer)	-32768	32767	R	Virtual_120_Int
216	Virtual channel 121 value (signed 16-bit integer)	-32768	32767	R	Virtual_121_Int
217	Virtual channel 122 value (signed 16-bit integer)	-32768	32767	R	Virtual_122_Int
218	Virtual channel 123 value (signed 16-bit integer)	-32768	32767	R	Virtual_123_Int

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
219	Virtual channel 124 value (signed 16-bit integer)	-32768	32767	R	Virtual_124_Int
220	Virtual channel 125 value (signed 16-bit integer)	-32768	32767	R	Virtual_125_Int
221	Virtual channel 126 value (signed 16-bit integer)	-32768	32767	R	Virtual_126_Int
222	Virtual channel 127 value (signed 16-bit integer)	-32768	32767	R	Virtual_127_Int
223	Virtual channel 128 value (signed 16-bit integer)	-32768	32767	R	Virtual_128_Int
224	Analog channel 1 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_1_Flt
225	Analog channel 1 value (floating point – word low)				
226	Analog channel 2 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_2_Flt
227	Analog channel 2 value (floating point – word low)				
228	Analog channel 3 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_3_Flt
229	Analog channel 3 value (floating point – word low)				
230	Analog channel 4 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_4_Flt
231	Analog channel 4 value (floating point – word low)				
232	Analog channel 5 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_5_Flt
233	Analog channel 5 value (floating point – word low)				
234	Analog channel 6 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_6_Flt
235	Analog channel 6 value (floating point – word low)				
236	Analog channel 7 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_7_Flt
237	Analog channel 7 value (floating point – word low)				
238	Analog channel 8 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Analog_8_Flt
239	Analog channel 8 value (floating point – word low)				
240	Digital input 1 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_1_Flt
241	Digital input 1 state value (floating point – word low)				
242	Digital input 2 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_2_Flt
243	Digital input 2 state value (floating point – word low)				
244	Digital input 3 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_3_Flt
245	Digital input 3 state value (floating point – word low)				
246	Digital input 4 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_4_Flt
247	Digital input 4 state value (floating point – word low)				
248	Digital input 5 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_5_Flt
249	Digital input 5 state value (floating point – word low)				
250	Digital input 6 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_6_Flt
251	Digital input 6 state value (floating point – word low)				
252	Digital input 7 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_7_Flt
253	Digital input 7 state value (floating point – word low)				
254	Digital input 8 state value (floating point – word high)	-3.4e+38	+3.4e+38	R	DigitalIn_8_Flt
255	Digital input 8 state value (floating point – word low)				
256	Remote channel 1 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_01_Flt
257	Remote channel 1 value (floating point – word low)				
258	Remote channel 2 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_02_Flt
259	Remote channel 2 value (floating point – word low)				
260	Remote channel 3 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_03_Flt
261	Remote channel 3 value (floating point – word low)				
262	Remote channel 4 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_04_Flt
263	Remote channel 4 value (floating point – word low)				
264	Remote channel 5 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_05_Flt
265	Remote channel 5 value (floating point – word low)				
266	Remote channel 6 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_06_Flt
267	Remote channel 6 value (floating point – word low)				
268	Remote channel 7 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_07_Flt
269	Remote channel 7 value (floating point – word low)				
270	Remote channel 8 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_08_Flt

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
271	Remote channel 8 value (floating point – word low)				
272	Remote channel 9 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_09_Flt
273	Remote channel 9 value (floating point – word low)				
274	Remote channel 10 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_10_Flt
275	Remote channel 10 value (floating point – word low)				
276	Remote channel 11 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_11_Flt
277	Remote channel 11 value (floating point – word low)				
278	Remote channel 12 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_12_Flt
279	Remote channel 12 value (floating point – word low)				
280	Remote channel 13 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_13_Flt
281	Remote channel 13 value (floating point – word low)				
282	Remote channel 14 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_14_Flt
283	Remote channel 14 value (floating point – word low)				
284	Remote channel 15 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_15_Flt
285	Remote channel 15 value (floating point – word low)				
286	Remote channel 16 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_16_Flt
287	Remote channel 16 value (floating point – word low)				
288	Remote channel 17 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_17_Flt
289	Remote channel 17 value (floating point – word low)				
290	Remote channel 18 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_18_Flt
291	Remote channel 18 value (floating point – word low)				
292	Remote channel 19 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_19_Flt
293	Remote channel 19 value (floating point – word low)				
294	Remote channel 20 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_20_Flt
295	Remote channel 20 value (floating point – word low)				
296	Remote channel 21 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_21_Flt
297	Remote channel 21 value (floating point – word low)				
298	Remote channel 22 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_22_Flt
299	Remote channel 22 value (floating point – word low)				
300	Remote channel 23 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_23_Flt
301	Remote channel 23 value (floating point – word low)				
302	Remote channel 24 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_24_Flt
303	Remote channel 24 value (floating point – word low)				
304	Remote channel 25 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_25_Flt
305	Remote channel 25 value (floating point – word low)				
306	Remote channel 26 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_26_Flt
307	Remote channel 26 value (floating point – word low)				
308	Remote channel 27 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_27_Flt
309	Remote channel 27 value (floating point – word low)				
310	Remote channel 28 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_28_Flt
311	Remote channel 28 value (floating point – word low)				
312	Remote channel 29 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_29_Flt
313	Remote channel 29 value (floating point – word low)				
314	Remote channel 30 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_30_Flt
315	Remote channel 30 value (floating point – word low)				
316	Remote channel 31 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_31_Flt
317	Remote channel 31 value (floating point – word low)				
318	Remote channel 32 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_32_Flt
319	Remote channel 32 value (floating point – word low)				
320	Remote channel 33 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_33_Flt
321	Remote channel 33 value (floating point – word low)				
322	Remote channel 34 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_34_Flt

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
323	Remote channel 34 value (floating point – word low)				
324	Remote channel 35 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_35_Flt
325	Remote channel 35 value (floating point – word low)				
326	Remote channel 36 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_36_Flt
327	Remote channel 36 value (floating point – word low)				
328	Remote channel 37 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_37_Flt
329	Remote channel 37 value (floating point – word low)				
330	Remote channel 38 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_38_Flt
331	Remote channel 38 value (floating point – word low)				
332	Remote channel 39 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_39_Flt
333	Remote channel 39 value (floating point – word low)				
334	Remote channel 40 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_40_Flt
335	Remote channel 40 value (floating point – word low)				
336	Remote channel 41 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_41_Flt
337	Remote channel 41 value (floating point – word low)				
338	Remote channel 42 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_42_Flt
339	Remote channel 42 value (floating point – word low)				
340	Remote channel 43 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_43_Flt
341	Remote channel 43 value (floating point – word low)				
342	Remote channel 44 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_44_Flt
343	Remote channel 44 value (floating point – word low)				
344	Remote channel 45 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_45_Flt
345	Remote channel 45 value (floating point – word low)				
346	Remote channel 46 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_46_Flt
347	Remote channel 46 value (floating point – word low)				
348	Remote channel 47 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_47_Flt
349	Remote channel 47 value (floating point – word low)				
350	Remote channel 48 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_48_Flt
351	Remote channel 48 value (floating point – word low)				
352	Remote channel 49 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_49_Flt
353	Remote channel 49 value (floating point – word low)				
354	Remote channel 50 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_50_Flt
355	Remote channel 50 value (floating point – word low)				
356	Remote channel 51 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_51_Flt
357	Remote channel 51 value (floating point – word low)				
358	Remote channel 52 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_52_Flt
359	Remote channel 52 value (floating point – word low)				
360	Remote channel 53 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_53_Flt
361	Remote channel 53 value (floating point – word low)				
362	Remote channel 54 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_54_Flt
363	Remote channel 54 value (floating point – word low)				
364	Remote channel 55 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_55_Flt
365	Remote channel 55 value (floating point – word low)				
366	Remote channel 56 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_56_Flt
367	Remote channel 56 value (floating point – word low)				
368	Remote channel 57 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_57_Flt
369	Remote channel 57 value (floating point – word low)				
370	Remote channel 58 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_58_Flt
371	Remote channel 58 value (floating point – word low)				
372	Remote channel 59 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_59_Flt
373	Remote channel 59 value (floating point – word low)				
374	Remote channel 60 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_60_Flt

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
375	Remote channel 60 value (floating point – word low)				
376	Remote channel 61 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_61_Flt
377	Remote channel 61 value (floating point – word low)				
378	Remote channel 62 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_62_Flt
379	Remote channel 62 value (floating point – word low)				
380	Remote channel 63 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_63_Flt
381	Remote channel 63 value (floating point – word low)				
382	Remote channel 64 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Remote_64_Flt
383	Remote channel 64 value (floating point – word low)				
384	Virtual channel 1 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_01_Flt
385	Virtual channel 1 value (floating point – word low)				
386	Virtual channel 2 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_02_Flt
387	Virtual channel 2 value (floating point – word low)				
388	Virtual channel 3 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_03_Flt
389	Virtual channel 3 value (floating point – word low)				
390	Virtual channel 4 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_04_Flt
391	Virtual channel 4 value (floating point – word low)				
392	Virtual channel 5 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_05_Flt
393	Virtual channel 5 value (floating point – word low)				
394	Virtual channel 6 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_06_Flt
395	Virtual channel 6 value (floating point – word low)				
396	Virtual channel 7 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_07_Flt
397	Virtual channel 7 value (floating point – word low)				
398	Virtual channel 8 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_08_Flt
399	Virtual channel 8 value (floating point – word low)				
400	Virtual channel 9 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_09_Flt
401	Virtual channel 9 value (floating point – word low)				
402	Virtual channel 10 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_10_Flt
403	Virtual channel 10 value (floating point – word low)				
404	Virtual channel 11 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_11_Flt
405	Virtual channel 11 value (floating point – word low)				
406	Virtual channel 12 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_12_Flt
407	Virtual channel 12 value (floating point – word low)				
408	Virtual channel 13 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_13_Flt
409	Virtual channel 13 value (floating point – word low)				
410	Virtual channel 14 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_14_Flt
411	Virtual channel 14 value (floating point – word low)				
412	Virtual channel 15 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_15_Flt
413	Virtual channel 15 value (floating point – word low)				
414	Virtual channel 16 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_16_Flt
415	Virtual channel 16 value (floating point – word low)				
416	Virtual channel 17 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_17_Flt
417	Virtual channel 17 value (floating point – word low)				
418	Virtual channel 18 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_18_Flt
419	Virtual channel 18 value (floating point – word low)				
420	Virtual channel 19 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_19_Flt
421	Virtual channel 19 value (floating point – word low)				
422	Virtual channel 20 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_20_Flt
423	Virtual channel 20 value (floating point – word low)				
424	Virtual channel 21 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_21_Flt
425	Virtual channel 21 value (floating point – word low)				
426	Virtual channel 22 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_22_Flt

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
427	Virtual channel 22 value (floating point – word low)				
428	Virtual channel 23 value (floating point – word high)				
429	Virtual channel 23 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_23_Flt
430	Virtual channel 24 value (floating point – word high)				
431	Virtual channel 24 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_24_Flt
432	Virtual channel 25 value (floating point – word high)				
433	Virtual channel 25 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_25_Flt
434	Virtual channel 26 value (floating point – word high)				
435	Virtual channel 26 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_26_Flt
436	Virtual channel 27 value (floating point – word high)				
437	Virtual channel 27 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_27_Flt
438	Virtual channel 28 value (floating point – word high)				
439	Virtual channel 28 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_28_Flt
440	Virtual channel 29 value (floating point – word high)				
441	Virtual channel 29 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_29_Flt
442	Virtual channel 30 value (floating point – word high)				
443	Virtual channel 30 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_30_Flt
444	Virtual channel 31 value (floating point – word high)				
445	Virtual channel 31 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_31_Flt
446	Virtual channel 32 value (floating point – word high)				
447	Virtual channel 32 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_32_Flt
448	Virtual channel 33 value (floating point – word high)				
449	Virtual channel 33 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_33_Flt
450	Virtual channel 34 value (floating point – word high)				
451	Virtual channel 34 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_34_Flt
452	Virtual channel 35 value (floating point – word high)				
453	Virtual channel 35 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_35_Flt
454	Virtual channel 36 value (floating point – word high)				
455	Virtual channel 36 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_36_Flt
456	Virtual channel 37 value (floating point – word high)				
457	Virtual channel 37 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_37_Flt
458	Virtual channel 38 value (floating point – word high)				
459	Virtual channel 38 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_38_Flt
460	Virtual channel 39 value (floating point – word high)				
461	Virtual channel 39 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_39_Flt
462	Virtual channel 40 value (floating point – word high)				
463	Virtual channel 40 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_40_Flt
464	Virtual channel 41 value (floating point – word high)				
465	Virtual channel 41 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_41_Flt
466	Virtual channel 42 value (floating point – word high)				
467	Virtual channel 42 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_42_Flt
468	Virtual channel 43 value (floating point – word high)				
469	Virtual channel 43 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_43_Flt
470	Virtual channel 44 value (floating point – word high)				
471	Virtual channel 44 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_44_Flt
472	Virtual channel 45 value (floating point – word high)				
473	Virtual channel 45 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_45_Flt
474	Virtual channel 46 value (floating point – word high)				
475	Virtual channel 46 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_46_Flt
476	Virtual channel 47 value (floating point – word high)				
477	Virtual channel 47 value (floating point – word low)	-3.4e+38	+3.4e+38	R	Virtual_47_Flt
478	Virtual channel 48 value (floating point – word high)				

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
479	Virtual channel 48 value (floating point – word low)				
480	Virtual channel 49 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_49_Flt
481	Virtual channel 49 value (floating point – word low)				
482	Virtual channel 50 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_50_Flt
483	Virtual channel 50 value (floating point – word low)				
484	Virtual channel 51 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_51_Flt
485	Virtual channel 51 value (floating point – word low)				
486	Virtual channel 52 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_52_Flt
487	Virtual channel 52 value (floating point – word low)				
488	Virtual channel 53 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_53_Flt
489	Virtual channel 53 value (floating point – word low)				
490	Virtual channel 54 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_54_Flt
491	Virtual channel 54 value (floating point – word low)				
492	Virtual channel 55 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_55_Flt
493	Virtual channel 55 value (floating point – word low)				
494	Virtual channel 56 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_56_Flt
495	Virtual channel 56 value (floating point – word low)				
496	Virtual channel 57 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_57_Flt
497	Virtual channel 57 value (floating point – word low)				
498	Virtual channel 58 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_58_Flt
499	Virtual channel 58 value (floating point – word low)				
500	Virtual channel 59 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_59_Flt
501	Virtual channel 59 value (floating point – word low)				
502	Virtual channel 60 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_60_Flt
503	Virtual channel 60 value (floating point – word low)				
504	Virtual channel 61 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_61_Flt
505	Virtual channel 61 value (floating point – word low)				
506	Virtual channel 62 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_62_Flt
507	Virtual channel 62 value (floating point – word low)				
508	Virtual channel 63 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_63_Flt
508	Virtual channel 63 value (floating point – word low)				
510	Virtual channel 64 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_64_Flt
511	Virtual channel 64 value (floating point – word low)				
512	Virtual channel 65 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_65_Flt
513	Virtual channel 65 value (floating point – word low)				
514	Virtual channel 66 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_66_Flt
515	Virtual channel 66 value (floating point – word low)				
516	Virtual channel 67 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_67_Flt
517	Virtual channel 67 value (floating point – word low)				
518	Virtual channel 68 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_68_Flt
519	Virtual channel 68 value (floating point – word low)				
520	Virtual channel 69 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_69_Flt
521	Virtual channel 69 value (floating point – word low)				
522	Virtual channel 70 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_70_Flt
523	Virtual channel 70 value (floating point – word low)				
524	Virtual channel 71 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_71_Flt
525	Virtual channel 71 value (floating point – word low)				
526	Virtual channel 72 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_72_Flt
527	Virtual channel 72 value (floating point – word low)				
528	Virtual channel 73 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_73_Flt
529	Virtual channel 73 value (floating point – word low)				
530	Virtual channel 74 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_74_Flt

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
531	Virtual channel 74 value (floating point – word low)				
532	Virtual channel 75 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_75_Flt
533	Virtual channel 75 value (floating point – word low)				
534	Virtual channel 76 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_76_Flt
535	Virtual channel 76 value (floating point – word low)				
536	Virtual channel 77 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_77_Flt
537	Virtual channel 77 value (floating point – word low)				
538	Virtual channel 78 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_78_Flt
539	Virtual channel 78 value (floating point – word low)				
540	Virtual channel 79 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_79_Flt
541	Virtual channel 79 value (floating point – word low)				
542	Virtual channel 80 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_80_Flt
543	Virtual channel 80 value (floating point – word low)				
544	Virtual channel 81 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_81_Flt
545	Virtual channel 81 value (floating point – word low)				
546	Virtual channel 82 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_82_Flt
547	Virtual channel 82 value (floating point – word low)				
548	Virtual channel 83 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_83_Flt
549	Virtual channel 83 value (floating point – word low)				
550	Virtual channel 84 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_84_Flt
551	Virtual channel 84 value (floating point – word low)				
552	Virtual channel 85 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_85_Flt
553	Virtual channel 85 value (floating point – word low)				
554	Virtual channel 86 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_86_Flt
555	Virtual channel 86 value (floating point – word low)				
556	Virtual channel 87 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_87_Flt
557	Virtual channel 87 value (floating point – word low)				
558	Virtual channel 88 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_88_Flt
559	Virtual channel 88 value (floating point – word low)				
560	Virtual channel 89 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_89_Flt
561	Virtual channel 89 value (floating point – word low)				
562	Virtual channel 90 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_90_Flt
563	Virtual channel 90 value (floating point – word low)				
564	Virtual channel 91 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_91_Flt
565	Virtual channel 91 value (floating point – word low)				
566	Virtual channel 92 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_92_Flt
567	Virtual channel 92 value (floating point – word low)				
568	Virtual channel 93 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_93_Flt
569	Virtual channel 93 value (floating point – word low)				
570	Virtual channel 94 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_94_Flt
571	Virtual channel 94 value (floating point – word low)				
572	Virtual channel 95 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_95_Flt
573	Virtual channel 95 value (floating point – word low)				
574	Virtual channel 96 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_96_Flt
575	Virtual channel 96 value (floating point – word low)				
576	Virtual channel 97 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_97_Flt
577	Virtual channel 97 value (floating point – word low)				
578	Virtual channel 98 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_98_Flt
579	Virtual channel 98 value (floating point – word low)				
580	Virtual channel 99 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_99_Flt
581	Virtual channel 99 value (floating point – word low)				
582	Virtual channel 100 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_100_Flt

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
583	Virtual channel 100 value (floating point – word low)				
584	Virtual channel 101 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_101_Flt
585	Virtual channel 101 value (floating point – word low)				
586	Virtual channel 102 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_102_Flt
587	Virtual channel 102 value (floating point – word low)				
588	Virtual channel 103 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_103_Flt
589	Virtual channel 103 value (floating point – word low)				
590	Virtual channel 104 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_104_Flt
591	Virtual channel 104 value (floating point – word low)				
592	Virtual channel 105 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_105_Flt
593	Virtual channel 105 value (floating point – word low)				
594	Virtual channel 106 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_106_Flt
595	Virtual channel 106 value (floating point – word low)				
596	Virtual channel 107 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_107_Flt
597	Virtual channel 107 value (floating point – word low)				
598	Virtual channel 108 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_108_Flt
599	Virtual channel 108 value (floating point – word low)				
600	Virtual channel 109 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_109_Flt
601	Virtual channel 109 value (floating point – word low)				
602	Virtual channel 110 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_110_Flt
603	Virtual channel 110 value (floating point – word low)				
604	Virtual channel 111 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_111_Flt
605	Virtual channel 111 value (floating point – word low)				
606	Virtual channel 112 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_112_Flt
607	Virtual channel 112 value (floating point – word low)				
608	Virtual channel 113 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_113_Flt
609	Virtual channel 113 value (floating point – word low)				
610	Virtual channel 114 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_114_Flt
611	Virtual channel 114 value (floating point – word low)				
612	Virtual channel 115 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_115_Flt
613	Virtual channel 115 value (floating point – word low)				
614	Virtual channel 116 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_116_Flt
615	Virtual channel 116 value (floating point – word low)				
616	Virtual channel 117 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_117_Flt
617	Virtual channel 117 value (floating point – word low)				
618	Virtual channel 118 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_118_Flt
619	Virtual channel 118 value (floating point – word low)				
620	Virtual channel 119 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_119_Flt
621	Virtual channel 119 value (floating point – word low)				
622	Virtual channel 120 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_120_Flt
623	Virtual channel 120 value (floating point – word low)				
624	Virtual channel 121 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_121_Flt
625	Virtual channel 121 value (floating point – word low)				
626	Virtual channel 122 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_122_Flt
627	Virtual channel 122 value (floating point – word low)				
628	Virtual channel 123 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_123_Flt
629	Virtual channel 123 value (floating point – word low)				
630	Virtual channel 124 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_124_Flt
631	Virtual channel 124 value (floating point – word low)				
632	Virtual channel 125 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_125_Flt
633	Virtual channel 125 value (floating point – word low)				
634	Virtual channel 126 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_126_Flt

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
635	Virtual channel 126 value (floating point – word low)				
636	Virtual channel 127 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_127_Flt
637	Virtual channel 127 value (floating point – word low)				
638	Virtual channel 128 value (floating point – word high)	-3.4e+38	+3.4e+38	R	Virtual_128_Flt
639	Virtual channel 128 value (floating point – word low)				
735	Bit array with alarms status (word high - alarms 31 to 16)	0	65535	R	AlarmArrayHigh
736	Bit array with alarms status (word high - alarms 15 to 0)	0	65535	R	AlarmArrayLow
774	Constant value for testing purposes (floating point – word high)	123456.125	123456.125	R	ConstantFloat
775	Constant value for testing purposes (floating point – word low)				
776	Digital input 1 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
777	Digital input 1 counting value (unsigned 32-bit integer – word low)				
778	Digital input 2 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
779	Digital input 2 counting value (unsigned 32-bit integer – word low)				
780	Digital input 3 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
781	Digital input 3 counting value (unsigned 32-bit integer – word low)				
782	Digital input 4 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
783	Digital input 4 counting value (unsigned 32-bit integer – word low)				
784	Digital input 5 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
785	Digital input 5 counting value (unsigned 32-bit integer – word low)				
786	Digital input 6 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
787	Digital input 6 counting value (unsigned 32-bit integer – word low)				
788	Digital input 7 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
789	Digital input 7 counting value (unsigned 32-bit integer – word low)				
790	Digital input 8 counting value (unsigned 32-bit integer – word high)	0	4294967295	R/W	-
791	Digital input 8 counting value (unsigned 32-bit integer – word low)				
990	Command for starting and stopping the logging process	0	2	R/W	LogStartStop
5242	Alarm 01 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5243	Alarm 01 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5250	Alarm 02 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5251	Alarm 02 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5258	Alarm 03 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5259	Alarm 03 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5266	Alarm 04 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5267	Alarm 04 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5274	Alarm 05 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5275	Alarm 05 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5282	Alarm 06 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5283	Alarm 06 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5290	Alarm 07 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5291	Alarm 07 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5298	Alarm 08 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5299	Alarm 08 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5306	Alarm 09 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-

Address	Description	Minimum	Maximum	R/W	SuperView Mnemonic
5307	Alarm 09 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5314	Alarm 10 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5315	Alarm 10 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5322	Alarm 11 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5323	Alarm 11 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5330	Alarm 12 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5331	Alarm 12 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5338	Alarm 13 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5339	Alarm 13 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5346	Alarm 14 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5347	Alarm 14 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5354	Alarm 15 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5355	Alarm 15 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5362	Alarm 16 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5363	Alarm 16 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5370	Alarm 17 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5371	Alarm 17 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5378	Alarm 18 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5379	Alarm 18 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5386	Alarm 19 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5387	Alarm 19 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5394	Alarm 20 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5395	Alarm 20 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5402	Alarm 21 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5403	Alarm 21 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5410	Alarm 22 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5411	Alarm 22 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5418	Alarm 23 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5419	Alarm 23 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5426	Alarm 24 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5427	Alarm 24 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5434	Alarm 25 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5435	Alarm 25 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5442	Alarm 26 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5443	Alarm 26 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5450	Alarm 27 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5451	Alarm 27 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5458	Alarm 28 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5459	Alarm 28 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5466	Alarm 29 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5467	Alarm 29 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5474	Alarm 30 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5475	Alarm 30 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5482	Alarm 31 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5483	Alarm 31 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-
5490	Alarm 32 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	
5491	Alarm 32 Setpoint (floating point – word high)	-3.4e+38	+3.4e+38	R/W	-

DETAILS ABOUT SOME REGISTERS

REGISTERS 0 AND 1 – SERIAL NUMBER

Device serial number. Register 0 has the number that corresponds to the first four digits of the serial number, while register 1 has the number that corresponds to the last four digits.

REGISTER 2 – FIRMWARE VERSION

Indicates the device firmware version, as it is shown in the examples:

If the version is “1.00”, value “100” will be read. If the version is “2.04”, value “204” will be read.

REGISTERS 241 TO 255 – DIGITAL INPUT STATE FLOATING POINT VALUE

Indicates the state of the digital input through the floating point value associated with the input channel by the user when configuring.

REGISTERS 735 AND 736 –ALARMS STATE

Bit array where each bit informs the state of the corresponding alarm (0 = alarm off, 1 = alarm on).

REGISTERS 774 AND 775 – CONSTANT FLOATING POINT VALUE

Informs the constant value “123456.125”, purposed to test the floating point format when reading registers.

REGISTERS 776 TO 791 – DIGITAL INPUT COUNTING VALUE

Has the counting values of the digital inputs (32-bit unsigned integer format). *Available only in firmware version 1.10 or higher.*

REGISTER 990 – LOGGINGS START AND STOP COMMAND

When configured the start and/or the stop of the loggings by a Modbus command, it allows to start or to stop the loggings disregarding the configured start and stop modes:

- When writing “1”, starts the loggings (if it was not already logging).
- When writing “2”, stops the loggings (if it was not already stopped).

REGISTERS 5242 TO 5491 – ALARMS SETPOINTS

Contains the configured value of the alarm setpoint. *Available only in firmware version 1.01 or higher.*

FLOATING POINT FORMAT USED

FieldLogger uses floating point values in *single precision* (32 bit) format as described in standard **IEEE-754** (IEEE Standard for Floating-Point Arithmetic).