

Rapidlogger™



Introduction

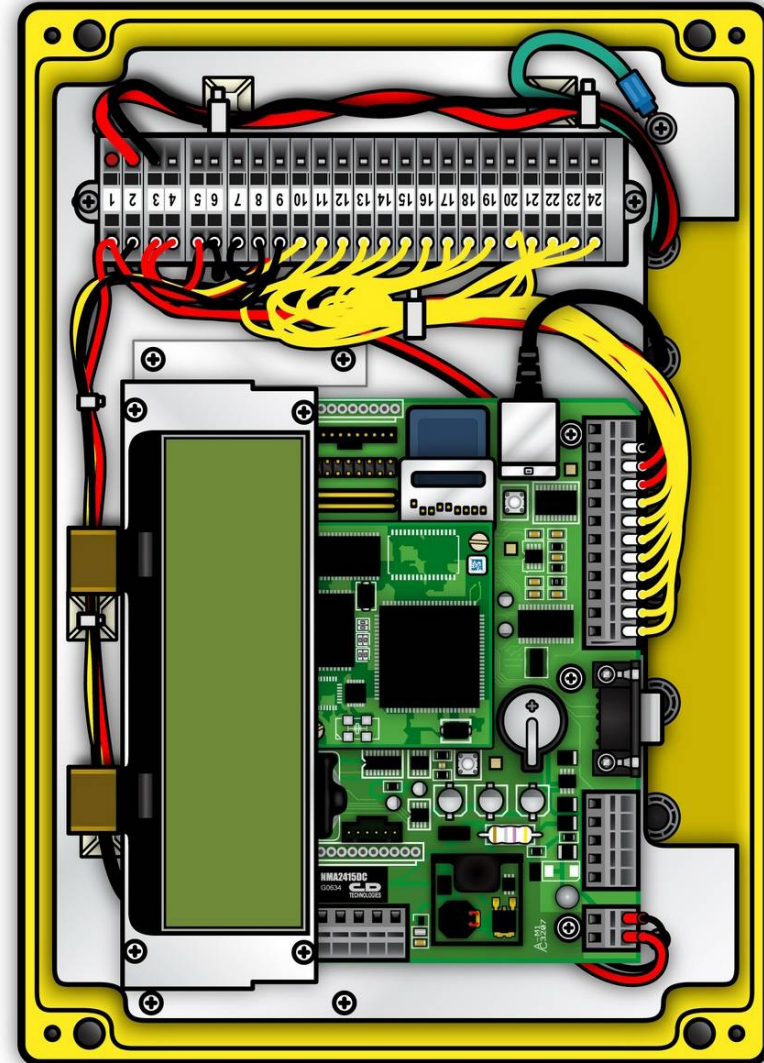
The Rapidlogger is a rugged and compact job monitoring system for the oilfield. The unit consists of an 8"x11"x3" NEMA-4 enclosure with a keypad and LCD screen. This system can run from a 12/24-volt DC power source or a 110/220-volt AC power supply. The Rapidlogger unit acquires displays and records job data. The unit does not need additional equipment to record job data on the internal SD memory card. However, job data can be transmitted to a laptop in real-time or after the job with an Ethernet cable. The Rapidlogger PC software can then be used to prepare a job report for the client if needed.

System Specifications

Analog Inputs	4/8 (max) x 16bit, 8 x 10bit
Frequency/Depth Inputs	4/8 max 32bit
Display	LCD w/ Backlight
Computer Interface	Ethernet, Serial
Sensor Bus	CAN, Modbus/RTU, Modbus/TCP
Power	12/24DC, 110/240AC
Program Memory	2MB Flash
Job Memory	64MB-1GB SD card
Operating Temperature	-40C to 70C
Ingress Protection	NEMA 4X - IP67
Drop Specification	4 ft drop to concrete
Shock Rating	40g per MIL-STD 810F
Vibration Rating	28g Peak per MIL-STD 810F

Wire Terminals

1	24 VDC IN +
2	24 VDC IN -
3	24 VDC OUT
4	24 VDC OUT
5	24 VDC OUT
6	24 VDC OUT
7	GND DC OUT
8	GND DC OUT
9	GND DC OUT
10	GND DC OUT
11	5 VDC OUT
12	mA1
13	mA2
14	mA3
15	mA4
16	QA1
17	QB1
18	QA2
19	QB2
20	F1
21	F2
22	Relay +
23	Relay -
24	mA Out



Entering and Recording Job Comments

From the main menu the user can press **F7**. Type in the the comment number and press **Enter**. Any comments that are entered are stored in the job data file and printed automatically with the **Rapid VU** job reports.

#	Job Comment Message
1	Bump Closing Plug
2	Bump Dart
3	Bump Plug
4	Bump Stage Plug
5	Bump Top Plug
6	Change Mud Weight
7	Change Parameter Name
8	Change Pump Rate
9	Change Sensor Calibration
10	Decrease Rate
11	Depth Corrected
12	Depth Correlation Event
13	Depth Modified
14	Depth Reset
15	Depth Zeroed
16	Dropped Ball/Dart
17	Dropped Bottom Plug
18	Dropped Closing Plug
19	Dropped Opening Plug
20	Dropped Stage Plug
21	Dropped Top Plug
22	Dropped Wiper Plug
23	Ended Acid
24	Ended Brine
25	Ended Cement Slurry
26	Ended Circulation
27	Ended Diesel
28	Ended Displacement
29	Ended Fluid Stage

30	Ended Job
31	Ended Logging
32	Ended Mud Acid
33	Ended Mud
34	Ended Nitrogen
35	Ended Nitrogen
36	Ended Oil
37	Ended Over-flush
38	Ended Pre-flush
39	Ended Reverse Circulation
40	Ended Slurry
41	Ended Spacer
42	Ended Stage
43	Ended Wash
44	Ended Water
45	Maximum Depth
46	Maximum Pressure
47	Maximum Rate
48	Modified Pump Schedule
49	Modified Totalizer
50	Pause
51	Perforating
52	Plug Balanced
53	Remark BHA
54	Remark Bleed Off Pressure
55	Remark Cementing Event
56	Remark CT Event
57	Remark Fracturing Event
58	Remark Milling
59	Remark Pumping Event

60	Remark Rig Event
61	Remark Slickline Event
62	Remark
63	Reset Selected Totals
64	Reset Stage Totals
65	Reset Volume
66	Screened Out
67	Sensor Calibrated
68	Sensor Zeroed
69	Set Rams
70	Shutdown
71	Stage At Perfs
72	Stage Changed
73	Started Acid
74	Started Brine
75	Started Cement Slurry
76	Started Circulation
77	Started Diesel
78	Started Displacement
79	Started Diverter
80	Started Drilling/Milling
81	Started First Stage
82	Started Fluid
83	Started Flush
84	Started Injection
85	Started Injection Nonreact Fluid
86	Started Injection Reactive Fluid
87	Started Job
88	Started Logging
89	Started Mixing Lead Slurry

90	Started Mixing Scav Slurry
91	Started Mixing Tail Slurry
92	Started next PPA Proppant
93	Started Next Stage
94	Started Nitrogen
95	Started Pad
96	Started POOH
97	Started Pressure Test
98	Started Proppant
99	Started Pull Test
100	Started Pumping Acid
101	Started Pumping Brine
102	Started Pumping Foam
103	Started Pumping Gel
104	Started Pumping Mud Acid
105	Started Pumping Mud
106	Started Pumping Next Fluid
107	Started Pumping Nitrogen
108	Started Pumping Oil
109	Started Pumping over-flush
110	Started Pumping pre-flush
111	Started Pumping Proppant
112	Started Pumping Spacer
113	Started Pumping Wash
114	Started Pumping Water
115	Started Pumping
116	Started Reverse Circulation
117	Started RIH
118	Started Second Stage
119	Started Selected Totals

120	Started Sensor Check
121	Started Squeeze
122	Started Tripping
123	Started Water
124	Started Wiper Trip
125	Stopped Acid
126	Stopped Brine
127	Stopped Cement Slurry
128	Stopped Circulation
129	Stopped Diesel
130	Stopped Displacement
131	Stopped Diverter
132	Stopped Drilling/Milling
133	Stopped First Stage
134	Stopped Fluid
135	Stopped Flush
136	Stopped Injection
137	Stopped Inject nonreact Fluid
138	Stopped Inject reactive Fluid
139	Stopped Job
140	Stopped Logging
141	Stopped Mixing Lead Slurry
142	Stopped Mixing Scav Slurry
143	Stopped Mixing Tail Slurry
144	Stopped next PPA Proppant
145	Stopped Next Stage
146	Stopped Nitrogen
147	Stopped Pad
148	Stopped POOH
149	Stopped Pressure Test

150	Stopped Proppant
151	Stopped Pull Test
152	Stopped Pumping Acid
153	Stopped Pumping Brine
154	Stopped Pumping Foam
155	Stopped Pumping Gel
156	Stopped Pumping Mud Acid
157	Stopped Pumping Mud
158	Stopped Pumping Next Fluid
159	Stopped Pumping Nitrogen
160	Stopped Pumping Oil
161	Stopped Pumping Over-flush
162	Stopped Pumping Pre-flush
163	Stopped Pumping Proppant
164	Stopped Pumping Spacer
165	Stopped Pumping Wash
166	Stopped Pumping Water
167	Stopped Pumping
168	Stopped Reverse Circulation
169	Stopped RIH
170	Stopped Second Stage
171	Stopped Selected Totals
172	Stopped Sensor Check
173	Stopped Squeeze
174	Stopped Tripping
175	Stopped Water
176	Stopped Wiper Trip
177	Weight Modified
178	Weight Zeroed