LogR: Quickstart

Parts List:
LogR enclosure on wall-mount backplate.
Pre-wired LPR Sensor.
Sensor entry fitting and ¾” SCH80 PVC ‘T’ fitting
Pre-wired 12VDC power supply.
USB flash drive
Backplate mounting hardware and international power supply conversion plug set (white box).

Installation:
1. Install corrosion rate sensor upstream of chemical injection.
2. Sensor may be installed vertically or horizontally.
3. Ensure differential pressure across installation sample line is sufficient for 1 GPM flow past sensor.
4. Power using pre-wired plug-in power supply or site 9-24VDC power.

Operation:
1. User manual on USB thumb drive included with LogR
2. Corrosion rate updates very 2 ½ minutes & logs every 5 minutes.

Caution:
1. Do not exceed the 125 psi & 125F sensor installation limits.
2. Do not exceed the 24VDC and 250mA on the alarm contact set.

The LogR has been preconfigured for the installed electrode metallurgy.

Plug in the pre-wired power supply and logging starts.

The 4-20mA current loop will be 4.0mA for the first few minutes until a measure cycle completes.
During this time the alarms contact will be closed because the corrosion rate is 0.0 mpy.

See overleaf for mode switch displays.
<table>
<thead>
<tr>
<th>Mode switch 0 to 7</th>
<th>Displays</th>
<th>UP/DOWN Scroll</th>
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</thead>
</table>
| **0**: Corrosion Rate | Corrode 0.01 mpy  
Corrode 50.0 mpy | Displays measurement state  
Updated every 150 seconds, 2 ½ minutes |
| **1**: Sensor Type | Steel Sensor  
Copper Sensor  
Admrty Sensor  
CuNi Sensor  
Zinc Sensor | Selects sensor electrode metallurgy.  
Changing **Mode** with new metallurgy selected changes corrosion rate measurement.  
Alloy type logged with corrosion rate, pitting index & conductivity |
| **2**: Conductivity | Conduct 50 uS  
Conduct 2542 uS  
Conduct >9999 uS. | No UP/DOWN response |
| **3**: Diagnostic | Update@ 126 sec  
Anodic 123mV  
Cathodic 106mV  
Pitting 3 mpy  
LogSize 14682  
Ser# LA10L091 | UP/DOWN scrolls through diagnostic displays |
| **4**: Loop Current | Loop 16.74mA  
Loop 4.00 mA | Adjust 4-20mA loop span if not at 4.00mA.  
Adjust 4-20mA loop zero if at 4.00mA.  
Disconnect the sensor for 4.00mA |
| **5**: Time & Date | 09/28/10  
13:29:08 | UP moves the underline cursor right  
DOWN changes the underlined value  
Pressing UP & DOWN at the same time saves Time-Date changes. |
| **6**: Alarm Contacts | Alarm@ 12mpy  
Alarmed! >12mpy | Adjusts the corrosion rate that opens the alarm contact set  
OR displays an active alarm |
| **7**: Loop Span | 20mA = 20 mpy  
20mA = 2mpy  
20mA = 100 mpy | Adjusts the mpy value at 20mA, the 4-20mA loop span.  
2 mpy loop span minimum  
100 mpy loop span minimum |
| **0-7**: Log Upload | USB Drive detected  
Log Upload 46231  
Remove Drive | Overrides display when thumb drive inserted.  
Auto uploads current log onto USB drive.  
Counts down logs remaining  
‘Remove’ on upload complete. Press both UP & Down keys to erase log. |