

## 902 I-sensor Installation Instructions

The 902 I-sensor is an enhanced version of the Galvanic Applied Sciences standard sensor block. The I-sensor contains a microprocessor monitoring the following.

- Led light output constantly adjusted over time and temperature for constant output.
- Zero point set with a pushbutton
- Sensor span adjusted with pushbutton
- Sensor block status indication with red and green led.

### **Bypass any plant alarms before commencing work on the 902 H2S analyzer**

Turn off the sample flow

Remove power from the analyzer

Ensure that the I-sensor is identified as 902 Sensor block with a white label

Remove the existing sensor block. Instructions for this procedure are included in the 902 Manual.

Inspect the optical path to ensure it is clean

Install the I-sensor block and restore power

The I-sensor will automatically adjust the zero and span point of the sensor block when power is restored.

Normal operation of the I-sensor block is indicated by a small flashing green led. If the I-sensor fails to zero or span, a small red led will flash. The I-sensor will function properly but replacement should be considered.

A more accurate zero and span can be obtained after the analyzer has had had power applied for 15 minutes. With the sample turned off, advance the tape. When the tape has stopped moving press any of the pushbuttons on the I-sensor block. The sensor block will perform a zero and span adjustment then resume normal operation (indicated by the flashing green led). A tape advance should then be performed.

The mV reading should be checked at approx 3 mV after tape advance.

The offset reading should also be noted (2<sup>nd</sup> function 8). Compensation voltage is normally 900 to 1100 mV.

A zero and span can be performed as often as required.

After maintenance is completed and analyzer has been confirmed to operate properly, plant alarms may be re enabled.

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