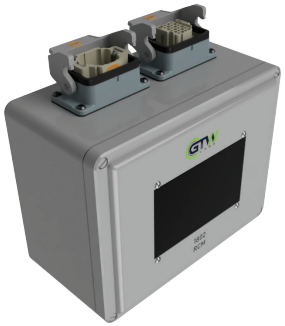
RCM

Remote Calibration Module

GTWlabs offers an innovative recalibration solution for CiDRA's SONARtrac flow meters.
A full flow meter recalibration is possible without removal of the meter from the pipe. It is possible for the recalibration to be certified to ISO 17025 and/or 10 CFR 50 Appendix B.

This new recalibration solution saves time & money for future periodic calibrations following an initial laboratory calibration through the use of our proprietary Remote Recalibration Module.

- The module is used to record and store data during the flowmeter's initial laboratory calibration.
- Recorded data is later injected back into the SONARtrac for future periodic calibrations.
- These recalibrations can be performed quickly without removing the SONARtrac from service.
- It eliminates downtimes and recalibration costs associated with removal, sending flow meters to calibration labs and subsequent reinstallation.



- This solution does not require modifications to your existing or new SONARtrac.
- The RCM may be ordered to be permanently installed with the SONARtrac or only attached during recalibration.
- The initial calibration data may be stored in a storage media (USB Stick or SD cards), network location or in the cloud.
- Recalibration can perform at the installation site or remotely from a centralized cloud location.

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Three Different Remote Calibration Options

Local Recalibration

- Handheld Model 1802-RCM, recalibration module is locally connected to the flow meter to be calibrated.
- The 1802-RCM is activated transmitting archived laboratory calibration data into the flow meter. The resulting flow rate readings are recorded.
- The recorded meter reading are compared against expected values from calibration standard reading archived from the original flow meter laboratory calibration.

On-site Recalibration

- A field version of the Model 1802 –RCM is permanently mounted on the flowmeter body.
- From a site PC, the Model 1802 is actuated. The flow transducer is isolated from the transmitter and the archived laboratory calibration data is transmitted into the flow transmitter. The resulting flow rate readings are recorded.
- The recorded meter reading are compared against expected values from calibration standard readings archived from the original flow meter laboratory calibration.

Remote Recalibration

- A field version of the Model 1802-RCM is permanently mounted on the flowmeter body.
- From a secure cloud based site, the Model 1802-RCM is actuated. The flow transducer is isolated from the transmitter and the archived laboratory calibration data is transmitted into the flow transmitter. The resulting flow rate readings are recorded to the cloud site.
- All data transmitted and received is subjected to asymmetrical 256 bit encryption. This is set-up to insure complete and verifiable data integrity, authenticity and security.
- The recorded meter reading are compared against expected values from calibration standard readings archived from the original flow meter laboratory calibration.

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