

Station Manager

SmartProcess™ Oil & Gas Applications



Station Manager is an application for the ControlWave Micro that performs natural gas flow measurement and station control for up to six or eight meter runs, and can be distributed across six stations. When installed in the ControlWave Micro, Station Manager is ideal for both new installations as well as station upgrades, where it replaces a mix of outdated RTUs and PLCs that are increasingly difficult to support.

The Station Manager user interface allows you to easily configure inputs and outputs (I/O), station and run parameters, perform maintenance operations, view and collect logs, and monitor current station information. Station Manager is available as either a pre-configured application or as a modifiable version that allows full customization of the control portion of the application.

Features

- 6 Runs or 8 Runs
- 6 Stations
- Run Switching
- PID Control
- API 21.1 Flow Calculations
- Historical Archiving
 - Hourly, Daily, and Monthly; Flow, Volume, and Energy
- Sampler Control
- Flexible Communications
 - BSAP, Serial, and IP Modbus & ENRON Modbus
- Configuration User Interface
- Additional Functionality to Station Manager
- Audit Trail of Configuration Parameters
- Event Logging
- Meter Performance for 6 Meters
- Other – Metric Conversion, etc.
- Wired and WirelessHART Support

Flow measurement is performed using AGA 3 (versions 1985, 1992, and 2012), 5, 7, and 8 calculations, per API Chapter 21. Supported meter types include:

- Orifice
- Ultrasonic
- Turbine
- Venturi
- Annubar
- Coriolis
- V-Cone
- Positive Displacement

The speed of sound is calculated using the AGA 10 calculation. In addition, the Auto-Adjust correction algorithm for Invensys (Rockwell) Auto-Adjust meters is supported.

Station Manager supports both forward flow measurement and bi-directional flow measurement. It also supports Gas Quality measurement through serial and Ethernet IP interfaces for up to six or eight Rosemount™ gas chromatograph streams (2251, Custom Map, and El Paso Custom map).



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