

ControlWave GFC Flow Computer Automation Capable, Integrated Measurement Solution



ControlWave GFC comes in a very compact package that includes a smart DP/P/T transducer assembly, battery/solar power system and a broad selection of modem and radio communications

Features

For users who expect more from their flow computers than simply chart replacement functionality, ControlWave GFC comes through with synergy of automation and measurement. Now, you can install a single instrument without the hassles you face when you try to use separate equipment for automation and measurement operations at remote sites.

A single, integrated package includes the following:

- ControlWave family platform that is pre-programmed to meet API 21.1 requirements for a two-run metering and regulating station
- Integral LCD and optional, 25-key keypad allows operators to change configurable parameters, on site, without packing a PC
- High performance, smart multivariable transducer assembly is a separate component that can be removed and replaced independently of the electronics platform
- Optional, pre-installed RTD assembly
- Wide variety of solar and battery power systems to best meet a range of applications needs—and extremely low power consumption keeps power systems costs under control

- Open communication and a broad selection of modem and wireless communication options best suit your networking needs
- I/O complements interface with external, process equipment
- Class I, Division 1 IS (for a subset of configurations) and Class I, Division 2 NI hazardous area approvals
- Unlike a flow computer, ControlWave GFC employs a hardware/firmware platform that readily handles automation tasks:
- Ample processing horsepower means that users need not worry about running out of resources for demanding applications
- Multitasking kernel securely manages multiple automation, communication and measurement operations
- For users wishing to write their own programs, or modify ours, we offer a complete, IEC 61131-3 programming environment and full support from Bristol Babcock is available, every step of the way.

After more than 90 years in process control and 115 years in measurement, Bristol Babcock remains committed to delivering superior life cycle economics to automation and measurement systems, today and tomorrow. We are proud to offer ControlWave GFC, a product that stands up to the tradition.

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ControlWave GFC at a Glance

Base Configuration:

- Integral electronics assembly with the following major components:
 - ARM9 CPU platform
 - Choice of 4 I/O selections (see below)
 - RS 232 Serial Local Port
 - Serial Network Port can be configured as RS 232, RS 485, OEM modem or OEM radio
 - Third serial port, RS 485
 - Dc/dc section accepts nominal 6 Vdc or 12 Vdc input power
 - Display/keypad interface
 - Dedicated interface for smart, DP/P transducer assembly
 - Three-wire RTD interface
 - Charge regulator for use with the solar panel and lead acid cell battery
 - Switch output for operation of auxiliary devices such as a radio
 - 12 Vdc-to-24 Vdc power supply provides power for 4 – 20 mA analog loops or for transmitters that require an operating voltage that is higher than the power input voltage (12 Vdc systems, only)
- Pre-loaded application program for a 2-meter run M&R station
- Weatherproof Lexan housing, 15.77" H x 7.8" W x 9.0" D

Selection Options:

- I/O selections:
 - Base 2 DI, 2 High-speed counter inputs, 2 DO, 12 Vdc power
 - Base I/O plus 3 AI, 1 AO, 12 Vdc power
 - Base 2 DI, 2 High-speed counter inputs, 2 DO, 6 Vdc power
 - Base I/O plus 3 AI, 6 Vdc power
- OEM modem and radio selections for the network port are:
 - Dial-up modem
 - Freewave spread spectrum radio
 - MDS spread spectrum radio
- Display/Keypad Options: Either a 2-line LCD with 2 pushbuttons or a 4-line LCD with 25-key keypad

- Hazardous area approval – either Class I Division 1 (6 Vdc nominal systems, only) or Class I, Division 2
- Internal power systems selections are as follows:
 - Single, 7.2 V lithium battery
 - Dual, 7.2 V lithium battery
 - 6 V, 7 AH lead acid cell battery with 1 Watt solar panel
 - 6 V, 7 AH lead acid cell battery with 4.3 Watt solar panel
 - 12 V, 7 AH lead acid cell battery with 4.5 Watt solar panel
- Bristol Babcock MVT smart transducer assembly, which provides measurement of differential pressure and static pressure – available in the following ranges:
 - 100" DP / 2000 psig pressure
 - 150" DP / 500 psig pressure
 - 150" DP / 1000 psig pressure
 - 150" DP / 2000 psig pressure
 - 300" DP / 1000 psig pressure
 - 300" DP / 2000 psig pressure
 - 300" DP / 4000 psig pressure
 - 25 psi DP / 2000 psig pressure
 - 25 psi DP / 4000 psig pressure
- Bendable RTD assembly, pre-wired, available with cable length of 6 feet, 15 feet or 25 feet
- Thermowell, available in insertion lengths of 2 ½", 4 ½" and 7 ½"
- Standard model radio, installed on an internal plate and connected to the network port (RS 232); the following radios are available:
 - Freewave spread spectrum
 - MDS Transnet 900 spread spectrum
 - MDS 4710 A and B licensed
 - MDS 9710 A and B licensed
 - MDS 9810 spread spectrum
 - MDS entraNet IP spread spectrum (Access Point, Ethernet Remote and Serial Remote models)
 - MDS iNet Ethernet Radio (Access Point/ Remote Dual Gateway, Remote Serial Gateway and Remote Ethernet Bridge models)
 - "Radio ready" configurations are also available for each of the radios listed, above.
- Polyphaser surge suppressor for radio