
**XSERIES FLOW COMPUTERS (XFC) and
XSERIES REMOTE CONTROLLERS (XRC)**

Integrated Packages

- Battery powered
- Solar Panel or other DC voltage charging system
- Communications equipment in enclosure
- CSA C/US Class I, Div 2, Grp CD, (ATEX, pending)

Volume and Energy Calculations

- AGA 3 and AGA 7 orifice and linear meters.
- NX-19 and AGA 8 Compressibility calculations
- AGA 5
- ISO 5167
- Other primary elements
- API 21.1

Expandable

- Plug-in I/O modules
- Control and alarming
- Data logging
- Optional Keypad
- Standard and Programmable Applications
- General purpose logic and math “operators”
- IEC 61131 Control Language
- Multiple Communication Ports
- 40+ days historical records (user configurable up to 180+ days of hourly and daily data records)

Fully Configured

- Assembled
- Factory Calibrated
- Communications Equipment Installed
- Software configured

Applications

- Custody transfer measurement
- Multi-tube measurement
- Real time Volume and Energy metering
- Operations data and statistics
- Production automation
 - ◊ Rate / Pressure Control with DP overrides
 - ◊ Nominations
 - ◊ Plunger Lift
 - ◊ Down hole liquid level control
 - ◊ Deliverability Testing
 - ◊ Custom controls and alarming
 - ◊ Pipeline measurement and control
 - ◊ Industrial delivery metering
 - ◊ Storage in/out metering
- Compressor monitoring
- Engineering data logger
- Exception based alarming
- Multi-tube measurement and control
- An ever growing list

XFC Integrated Package for Natural Gas

- Integral Smart, Multivariable Transmitters (Static Pressure, RTD Temperature, Differential Pressure, Pulse Input)
- Onboard user IO
 - ◊ 2 analog inputs
 - ◊ 2 digital inputs (high speed PI capable)
 - ◊ 2 digital outputs
 - ◊ Battery voltage
 - ◊ Charger voltage



XRC Integrated Package for General Purpose

- Onboard user IO
 - ◊ 5 analog inputs
 - ◊ 4 digital inputs - (2 high speed PI capable)
 - ◊ 4 digital outputs
 - ◊ Battery voltage
 - ◊ Charger voltage



µFLO 6213 SINGLE TUBE FLOW COMPUTER FOR DIFFERENTIAL METERS

Integrated Package for Natural Gas Flow Measurement

- Smart, Multivariable Transmitter (static pressure, differential pressure and RTD temperature)
- Battery powered, Solar Panel Charged System
- Communications equipment mounting in enclosure
- CSA C/US Class I, Div 2, Grp CD, (ATEX, pending)



AGA Calculations

- AGA 3 and AGA 7 orifice and linear meters
- NX-19 and AGA 8 Compressibility calculations
- ISO Calculations
- U.S. or Metric measurement units
- Supports API chapter 21 recommendations
- 40+ days historical records (user configurable)

Single Meter Run Simplicity

- Local Configuration port
- Optional Single DI/DO
- Comprehensive software support
- Simple, accurate and productive chart replacement

Remote Communications Ready

- Radio mounting tray
- Software configurable RS232/RS485/RS422 port

XSERIES EX FLOW COMPUTERS (Div1 / Zone 1)

Explosion Proof Package for Natural Gas Flow Measurement

- 6200EX differential device with Smart, Multivariable Transmitter (static pressure, differential pressure and RTD temperature)
- 9 to 30Vdc supply voltage compatible
- Hazardous Area Classifications of CSA C/US Class 1, Div 1 Groups C/D, (ATEX EExd11B, IECEx Exd11B, pending)



AGA Calculations

- AGA 3 and AGA 7 orifice and linear meters
- NX-19 and AGA 8 Compressibility calculations
- ISO Calculations
- U.S. or Metric measurement units
- Supports API chapter 21.1
- 40+ days historical records (user configurable up to 180+ days of hourly and daily data records)

Single Meter Run Simplicity / Multi Run Capability

- Local Configuration port
- Comprehensive software support
- Simple, accurate and productive chart replacement

Features

- Two Software configurable RS232/RS485/RS422 port
- One Analog In
- One Digital In / Pulse In
- One Digital Out

Optional I/O Daughter Card

- Four Digital Ins (also functions as event counter and are capable of accepting NAMUR type sensors)
- Four Digital Outs
- Three Analog Ins
- One Analog Out

MODBUS MULTIVARIABLE TRANSMITTER for DIFFERENTIAL METERING

Smart, Multivariable Transmitter

- Static Pressure, Differential Pressure and RTD Temperature
- Designed to meet Hazardous Area Classifications of CSA C/US CI,D1 Groups C/D, ATEX EExd11B, IECEx Exd11B
- Intrinsically safe configuration available
- Accuracy: 0.075%
- RS485 Modbus protocol
- Optional LCD
- Can be configured with external keys
- Totalflow flow measurement products include pre-built, easy to use interface to multivariable
- Interchangeable electronics with self re-configuration
- Significant turndown capability

NGC NATURAL GAS CHROMATOGRAPH

Online, Low Power Gas Chromatograph

- Multiple Communication Ports
- C6+ Gas Analysis
- Class 1, Div. 1 Certified
- Four Streams - Three Streams + Calibration Stream or 2 and 2
- Five (5) minute analysis cycle time



Modular Construction

- Dual Electronic Pressure Regulators
- Interchangeable GC Valve Module
- Optional Feed Through Heater
- Pre-designed Sampling Systems

Windows Based Software Support

- Auto-start Feature
- Auto Calibrate
- Historical Data Records
- Remote and Local Operation
- SD Card Memory Storage

Btu Calculations per:

- GPA
- ISO
- GOST

Remote and Local Communications Ready

- Modbus Slave
- Modbus Host
- Ethernet
- USB (Host and Client)
- Medicon Modbus
- Danalyzer Modbus

BTU 8000/8100 NATURAL GAS CHROMATOGRAPH

First Online, Low Power Gas Chromatograph

- Multiple Communication Ports
- C6+ Gas Analysis
- Class 1, Div. 1 Certified
- Three Streams + Calibration Stream
- Three (3) minute analysis cycle time

Modular Construction

- Electronic Pressure Regulator
- Interchangeable Column module
- Integrated Heater
- Pre-designed Sampling Systems

Windows Based Software Support

- Auto-start Feature
- Auto Calibrate
- Historical Data Records
- Remote and Local Operation

Btu Calculations per:

- GPA 5160
- ISO
- GOST

Remote and Local Communications Ready

- Modbus slave

LEVELMASTER PRODUCT STORAGE TANK LEVEL SENSOR

Features

- Low power
- Patented standard 0.1 inch (2.5mm) high relative accuracy technology
- High precision .05 (1.25mm) relative accuracy option
- Measurement repeatability of plus or minus .05 inches (1.25mm)
- Resolution of .01 inches (.25mm)
- Utilizes simple ASCII communications protocol
- Easily interfaces to any RTU or PLC device
- Simple to install
- Simple one-time installation calibration (set it and forget it)
- Available in lengths from 2 foot (0.6 meters) to 25 foot (7.6 meters)
- Designed for Single or Dual floats
- Single RTD for fluid temperature measurement
- CSA and Certified for use in Division 1 Group C and Group D Hazardous Environments
- International approvals pending
- RS485 communications port (up to 16 tanks can be connected in parallel on the same bus)
- Two year warranty
- Up to 4 LevelMasters can be powered with a single optional intrinsically safe barrier board for Div 1, Group D service



Applications

- Monitoring and control of liquid levels in tanks
- Leak detection and spill prevention
- Level and Pump control
- Safely gauge H2S tanks
- Call-Out exception reporting
- High and Low alarm capability
- Meets or exceeds industry standards

Power and Productivity
for a Better World.™

www.abb.com/totalflow
www.abb.us
www.abb.com



ABB Inc.
Totalflow Products
7051 Industrial Blvd.
Bartlesville, OK 74006
Tel: (918) 338-4888
Fax: (918) 338-4699
(800) 442-3097

For more information,
please contact your
local ABB Totalflow
representative or visit
our website.