accQcomm™ Digital/Analog Interface Module

The accQcomm™ digital/analog interface module accepts RS-232/RS-422 serial data from up to three Isco ADFM® flow meters (ADFM Pro20, Hot Tap, accQmin™, or H-ADFM) and converts the data into an industry-standard digital protocol (MODBUS or Ethernet) or industry-standard analog signal (4-20 mA). Either method allows easy interface with SCADA/DCS or other secondary control or data recording systems.

Additionally, the accQcomm's pass-through capability allows the flow meters to be accessed using a number of communication protocols, including Ethernet and cellular modems.

The module is wall or console mountable and is powered with 12 to 24 VDC.

Applications

Provides real-time SCADA/DCS interface for applications in

♦ Wastewater collection and treatment

♦ Stormwater collection and discharge

♦ Industrial process and treatment

Standard Features

♦ Three serial inputs, RS232 or 422, for simultaneous integration of up to 3 different ADFM systems.

♦ Modbus or Ethernet interface for digital data access.

♦ Four independent, opto-isolated 4-20 mA analog outputs, programmable for any measured parameter.

♦ Sums and averages of data from the three instruments selectable as an output.

♦ Pass-through mode for flow meter access via a single, shared Ethernet or serial connection.

♦ Eight optically isolated relay outputs for issuing alarms based on user-defined conditions.

Ordering Information

Description	Part Number
accQcomm ADFM digital/analog interface module	68-7500-010

Specifications

accQcomm Interface Module	
Physical/environmental	
Dimensions (H x W x D):	2.75 x 10.5 x 5.6 in. (70 x 267 x 143 mm)
Weight:	2.06 lbs (.95 kg)
Material:	Polycarbonate
Enclosure:	NEMA 1, IP20
Power Requirements:	12 to 24 VDC; 9 VDC absolute minimum; 30 VDC absolute maximum. 50 to 75 mA.
Temperature Range:	-4 to 158° F (-20 to 70° C), operating and storage
Display Type:	Backlit LCD, 4 lines, 80 characters
Communication	
Digital I/O	
Ports:	8 total (3 - RS232; 3 - RS422; 1 - MODBUS 232; 1 - MODBUS 485; MODBUS protocols ASCII, RTU)
Ethernet communication:	Ethernet port
Modem:	External modem connection through RS232 serial connector
Analog Output	
Number of channels:	4
Output range:	4-20 mA
Maximum load:	600 ohms
Isolation:	Output is opto-isolated from DC power, from the network, and from other outputs
Relay Alarm Outputs	
Number of alarms:	8
Type:	Normally open, solid state, maximum contact resistance 35 ohms