Monitronix Europe

Specification - 810 EFP

Electronic Flow Panel

Introduction

The 810 is an advanced all-electronic flow meter panel for air distribution and monitoring of 10 cables.

The 810 uses precision Honeywell mass flow sensor technology to achieve a much higher level of sensitivity and accuracy than is possible with less advanced sensors.

The flow measurement technique used automatically compensates for different pressures and software rolling averaging gives stable readings at all times.
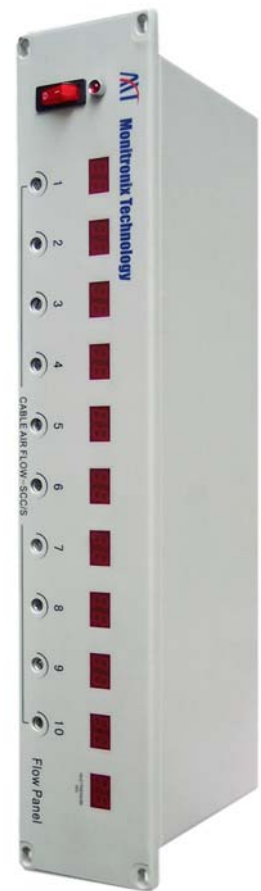
The user APCAMS system collects data from each panel or group of panels via a routine polling process for automatic alarm and trend evaluation. All trend and alarm threshold settings are software based and remotely adjustable.

Features

- Microprocessor based
- Master-Slave operation allows up to 15 810 panels to be networked via one master panel with modem or network port
- Compatible with all Sparton and Monitronix APCAMS CMU systems
- Uplinks via modem or IP network (Ethernet)
- Inter-panel communications via built-in
- RS422 serial bus
- Local and remote display of ten cable flows plus total panel flow and panel pressure.
- Remote firmware upgrade capability
- Drop-in replacement for ageing mechanical (rotameter) type flow panels
- Most compact and flexible 10 way panel available
- Free Windows XP compatible software (with remote flash RAM update utility) is available for direct user communications via modem or network

Description

The Monitronix 810 EFP is a very compact and flexible solid state replacement for existing mechanical flow distribution panels. The 810 can be directly polled (via PSTN or TCP/IP) by existing CPMS systems that support satellite monitors. The use of premium mass flow sensors ensures accurate data for remote monitoring systems and allows for precise tracking of flow trends and alarms. High sensitivity at very low flows coupled with extended measurement range (0-99 SCCS on individual cable feeds and 0-800 SCCS total) allows this panel to track typical cable leakage situations which are well beyond the range of many competing systems.

Technical Characteristics

Controller	
Processor	Toshiba 93C41
Flash Memory	512K
SRAM	512K
Local displays	11 x 2 digit LED

Electrical Noise Immunity	
Technical Characteristics	Meets CE and FCC Part 15 standards

Environmental Conditions	
Continuous operation	-20° to +60° C
Transportation and storage	-40° to +70° C
Relative humidity	0 to 95% non-condensing

Power	
Input Voltage	-36 to –72 VDC
Power Consumption	15 watts maximum

Physical Properties	
Dimensions	483 x 150 x 90 mm
Mounting	19″ rack or wall mount accessory
Local bus port	RS-422
Master panel uplink port	Modem (Ethernet option available)
Inlet tube fitting	3/8″ push fit
Outlet tube fittings	¼″ push fit (right angle, up or down)
Test valves	11 x Schrader valves
Shut off valves	On/off
Check valves	10 cable feeds

Measurement Performance	
Cable Flow Cannels	0-99 SCCS
Accuracy 0-20 SCCS	+/- 2 SCCS
Accuracy 21-99 SCCS	+/- 3 SCCS
Total Flow Channel	0-800 SCCS
Pressure	0-99 KPa
Pressure accuracy	+/- 2 KPa

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