

DEDICATED FLOW BLOCK 871DFB



Introduction

The Dedicated Flow Block MT871DFB is a one-channel flow measurement module which can be integrated with the heritage flow panel for the remote measurement of air flow in pressurized communication cables. Each flow block outputs standard resistances related with the measured flow, ranged from 100k Ω through 3820k Ω , which can be monitored by the series 800 cable pressure monitoring system manufactured by Monitronix or Sparton system. High-performance of pressure sensor and advanced circuit design provide accurate airflow measurement over the range of 0 to 20 SCFH.

Features

- Microprocessor based.
- Advanced circuit design.
- High-performance of electronic pressure sensor makes the accuracy better than mechanical flow measurement
- Resistance output is able to be compatible with the existing monitoring system and make its upgrade easier and lower cost.
- High reliability and high service life.
- Compatible with Sparton and Monitronix pressure monitoring system.

Contact:

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General Characteristics

Description

The Dedicated Flow Block MT871DFB adopts a high-performance pressure sensor to measure air flow into the communication cable in the pressurized cable system in the telecommunication company. With smart design, it can be directly integrated with the existing heritage flow panel. The heritage flow panel allows local visual reading of the airflow in pressurized communication cables at many unmanned remote locations. By contraries, the Dedicated Flow Block 871DFB, in conjunction with the series 800 cable pressure monitoring system from Monitronix Technology or Sparton monitoring system, provides the remote readings and centralized monitoring of these airflows.

The Dedicated Flow Block 871DFB is designed with electronic pressure sensor and related advanced circuit, and moreover, with standard resistance output. So it has the characteristics of both high accuracy and compatibility with the existing monitoring system which reduce the upgrade cost.

The Dedicated Flow Block 871DFB is uniquely designed to mate with the heritage flow panel. Installation will be “plug and play”.

As an upgrade of heritage flowmeter, the Dedicated Flow Block 871DFB can be widely applied in the pressurized cable system to measure the air flow into the cable.

Technical Characteristics

Measurement Range Air Flow Accurate Over pressure/Excessive flow Output	<ul style="list-style-type: none"> • 0 to 20 SCFH • 0.5 SCFH • 20 Psi/30 SCFH • 100kΩ to 3820 kΩ
Electrical Power Requirements Power supply Max. current	<ul style="list-style-type: none"> • 48 ± 12VDC • < 5 mA
Environmental Conditions Temperature <ul style="list-style-type: none"> • Continuous Operation • Transportation and storage Relative Humidity	<ul style="list-style-type: none"> • 0° to +50° C • -40° to +70° C • 0 to 95% non-condensing
Physical Properties Inlet Outlet Size Monitoring pair	<ul style="list-style-type: none"> • G1/4 Female thread (No tube fitting supplied) • G1/4 Female thread (No tube fitting supplied) • 22 x 80 x 74 (W x H x D) mm • 2 x 0.5mm wires

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