

## Analogue Addressable Diagnostic Sensors

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### 2000 Series



- 7-segment display
- Remote test capabilities
- Remote signalling capabilities
- Optical sensor with field exchangeable optical chamber
- Easy numeric addressing (1-128)
- ASIC and SMD technology
- Enhanced communication protocol
- Full diagnostic self testing
- Polarity insensitive
- Full range : optical and heat
- Full range of I/O units and accessories
- EN 54 Approved

#### USER FRIENDLY

Fitted with an exclusive 7-segment display, the detectors provide comprehensive, on the spot information. In addition to alarm signalling, information such as Fault, Pre-alarm, Maintenance Alarm (Clean me), Disabled Sensor, Sensor in Test, Error (double address, wrong sensor type) and Sensor Polled is provided.

Each detector is equipped with an internal reedswitch. If the reedswitch is tripped at any time with an external magnet, the detector displays its address and Real Time Analogue Value.

Sensors are individually identified by setting an address through 2 rotary switches. The address is straight numerical and does not require binary or hex conversions which significantly reduces the risk of incorrect addressing.

#### MAINTENANCE FRIENDLY

Photo-electric sensors are equipped with the disposable optical chamber. This allows sensors to be serviced in the field without operating through a exchange pool.

All sensors are compatible with a standard base, which makes them easily interchangeable.

#### STATE OF THE ART COMMUNICATION

Panel to sensor communication is provided through the powerful industry standard SIA protocol. Such a protocol features multiple buscycle codes and CRC errorchecking. This enhanced protocol ensures the overall integrity and errorfree operation of the full system, without compromising speed.

#### EXTENDED APPLICATIONS

A comprehensive range of accessories complements this range. The following accessories exist : isolator, sounder circuit controller, zone monitor unit and a variety of I/O modules. Also a full line of manual call points is available.

### How to order

DP 2051 .... Optical sensor  
 DP 2061 .... Optical sensor with remote LED output  
 DP 2071 .... Optical sensor with 7-segment display and remote LED output  
 DT 2053 .... Heat sensor  
 DT 2063 .... Heat sensor with remote LED output  
 DT 2073 .... Heat sensor with 7-segment display and remote LED output  
 IU 2016 ..... Isolator  
 DB 2001 .... Standard base 10 cm - 2 terminals  
 DB 2001 U. Standard base 15 cm - 2 terminals  
 DB 2002 .... Standard base 10 cm - 4 terminals  
 DB 2002 U. Standard base 15 cm - 4 terminals  
 DB 2003 .... Base for isolator  
 DB 2004 .... Transition base DX600 to DX 2000  
 AI 672 ..... Low current alarm indicator  
 AI 673 ..... Low current alarm indicator, optical, acoustical

### Technical data

	DI 2000	DP 2000	DT 2000
Operating voltage	17 - 28 Vdc		
Current consumption Quiescent at 24 V DC In alarm at 24 V DC	< 150 µA	< 150 µA LED : 2 mA - 7-segment : 2 mA	< 150 µA
Alarm indication	Red LED	White LED (red alarm)	Red LED
Remote Alarm output	4 mA		
Max. wind	10 m/sec	-	-
Humidity	0-95%, non condensing		
IP rating	IP 43		
Source	0.9 µCi Am 241	-	-
Dimensions	10 cm Ø; H = 5 cm		



The 2000 series complies with the essential requirements of the EMC directive 89/336/EMC.