



DIS-IVI Digital temperature sensor for ducts

The DTS-M series are digital temperature sensors powered over Modbus with 24 VDC via an RJ45 connector. They are intended for duct channels and are compatible with various control systems based on temperature. The sensor element is placed in a stainless steel tube, which simplifies the cleaning of the

duct system. There are two product versions featuring different tube length - 85 and 165 mm.

Key features

- \bullet Wide temperature range: -30—70 °C
- Modbus RTU communication
- Easy wiring via an RJ45 socket
- Low-maintenance and easy-to-clean design

	Te	echnical specifications		
Supply voltage	24 VDC, Power over Modbus			
		Maximum: 0,192 W		
Power consumption	Nominal: 0,18 W			
	Imax: 8 mA			
Sensor range		-30—70 °C		
Accuracy		±1 °C		
Protection standard		IP65		
Ambient conditions	Temperature	-30—70 °C		
	Rel. humidity	5-95 % rH (non-condensing)		

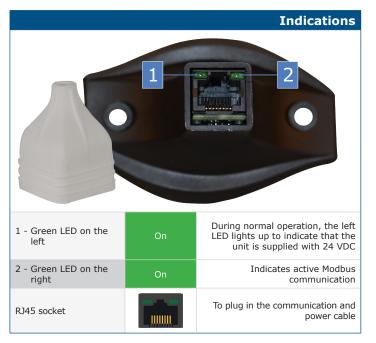
	Wiring and connections
	RJ45 socket
Pin 1	Supply voltage
Pin 2	Supply voltage
Pin 3	Modbus RTU communication, signal A
Pin 4	Modbus RTU communication, signal A
Pin 5	Modbus RTU communication, signal /B
Pin 6	Modbus RTU communication, signal /B
Pin 7	Ground, supply voltage
Pin 8	Ground, supply voltage
	8 7 6 5 4 3 2 1 GND A +24VDC
GND	8 7 6 5 5 4 4 3 2 2 1



		Article codes		
Article code	Supply	Probe length		
DTS-M-080	24 VDC, PoM	85 mm		
DTS-M-160	24 VDC, F0I ⁴	165 mm		

Area of use

• Measuring temperature in duct channels







DTS-M

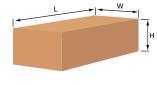
DTS-M-160

Digital temperature sensor for ducts

Standards

- Low Voltage Directive 2014/35/EC
 - EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529
 - EN 60730-1:2011 Automatic electrical controls for household and similar use - Part 1: General requirements
- EMC Directive 2014/30/EC
 - EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 1: General requirements
 - EN 61326-2-3:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 2-3: Particular requirements Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning
 - EN 61326-2-5:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 2-5: Particular requirements Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1
- WEEE Directive 2012/19/EU
- RoHs Directive 2011/65/EU

Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
DTS-M-080 DTS-L-080	Unit (1 pc.)	82	55	175	0.058 kg	0.062 kg
	Carton (10 pcs.)	492	182	84	0.58 kg	0.77 kg
	Box (60 pcs.)	590	380	280	3.48 kg	5.54 kg
DTS-M-160 DTS-L-160	Unit (1 pc.)	82	55	225	0.070 kg	0.076 kg
	Carton (10 pcs.)	492	182	84	0.705 kg	0.915 kg
	Box (40 pcs.)	590	380	280	4.23 kg	6.41 kg

Global trade item numbers (GTIN)				
Article	Unit	Carton	Вох	
DTS-M-080	5401003701034	05401003002100	5401003500880	
DTS-L-080	5401003002087	5401003701010	5401003500866	
DTS-M-160	5401003002117	5401003701041	5401003500897	
DTS-L-160	5401003002094	5401003701027	5401003500873	

83.3 mm 55.2 mm

60 mm

