DISPLAY UNIT DUST/DY-28

TECHNICAL DATASHEET

DESCRIPTION

Display unit DY-28 allows engineering and visualization of analogue input 0-5 V or 4-20 mA.
Analog input signal is repeated as an output in format 4-20 mA.
Display unit DY-28 is equipped with three free contacts relays, for alarm levels: warning (default 25% of f.s.), danger (default 50% of f.s.) and system fault.

CHARACTERISTICS

Display	L.C.D. 8 Characters x 2 lines	Visibile Area 35.0x15.0 with back light
Full Scale	0 ÷100% L.E.L., (Explosive)	20, 100, 200, 400 ppm (Toxic)
Power SUpply	12 Vdc or 27 Vdc	With protection by resettable fuse 250 mA
Absorption at 12 Vdc	90 mA	
Analogue Input	0-5 V or 4÷20 mA	R loop input 100 Ohm reference to ground
Proportional Output	Loop 4÷20 mA	R loop 300 Ohm max. reference to ground
Working Temperature	-10, +60 °C	
Relative Humidity	90%	Not condensing
Dimensions	(L) 80 x (H) 80 x (P) 50 mm.	
Weight	60 gr.	
Mounting	Wall mounting	
Fixing	2 holes 6x4 mm.	
Protection Range	IP65	

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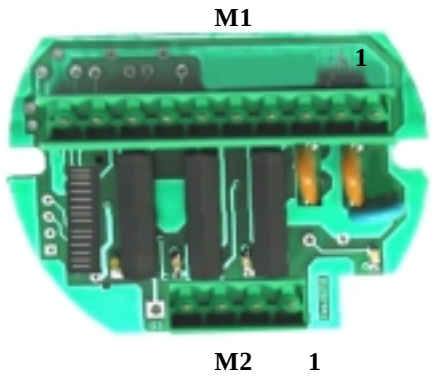
ELECTRICAL CONNECTION

To connect the sensor to power supply unit, we suggest to use shielded cables.
In case it is necessary to use more pieces of cable, be sure there is continuity even on cables screen, even junctions between conductors must be soldered.
About shielded screen we remind you that it has to be connected to ground only on the control unit or power supply group side, never connect it on detectors.
The use of terminal leads is recommended, otherwise the joints on the power cable must be clamped with flat tab connectors or soldered.
It is best to avoid connection to the same power source used for the detectors, inductive loads could generate 'noises' on the power supply to the system.
In any case the use of auxiliary winding on the main power transformer is recommended for supply suppression devices, actuators, sounders or other devices.
Be sure the system has a good ground.

Connection to power supply source will be made on M1 terminal.



M1		Signal
Pin 1	-	Negative power supply 0 Vcc
Pin 2	+	Positive power supply 12÷24 Vcc
Pin 3	U	Output 4-20 mA
Pin 4	C	Common 1st alarm level
Pin 5	CC	Contact 1st alarm level
Pin 6	C	Common 2nd alarm level
Pin 7	CC	Contact 2nd alarm level
Pin 8	C	Common System Fault
Pin 9	CC	Contact System Fault
Pin 10	S	Shield

Output Relays Electrical Characteristics:

Contact Resistance max: 150 mΩ
Commutation Voltage max: 100 Vcc
Commutation Current max: 1 A

Connection to sensor will be made on M2 terminal.

M2		Signal
Pin 1	-	Negative power supply sensor 0 Vcc
Pin 2	+	Positive power supply sensor 12÷24Vcc
Pin 3		OC1 1st alarm level
Pin 4		OC2 2nd alarm level
Pin 5		OC3 System fault