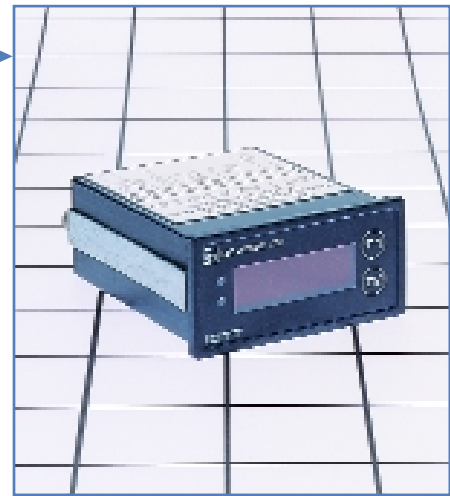


Digital Process Indicators ID56-X IDT-X and IDTT

Function: The IDTT range of panel mounting digital process indicators have high efficiency 3½ digit red LED displays and a 30 Volt DC (nominal) transmitter power supply as standard. The basic model is the ID56-X, with the IDT-X having a single level trip amplifier and the IDTT a dual level trip amplifier built-in. The display (engineering units) and trip levels will be factory set to the customers requirements. However, on-site adjustments can easily be made by the user whilst the indicator is still in the panel. The displays can be scaled from -1999 to +1999 full scale and the zero and span and decimal point are all selectable by means of potentiometers and links located behind the front panel. The IDTT range is designed for use in instrumentation systems and ideally suited to applications where indication and on/off control functions are required, i.e. for filling/emptying tanks when associated with a level sensor; for heating/cooling when associated with a temperature sensor; and humidifying/dehumidifying when associated with a humidity probe.



ID DIGITAL PROCESS INDICATOR RANGE

SPECIFICATIONS

Please note that the following are typical ranges. We also manufacture instruments to cater for other ranges, within limitations detailed below. All instruments come with span and zero potentiometers for fine tuning on site.

INPUTS:

DC Current

0 to 1mA into 1000 ohms
0 to 10mA into 100 ohms
0 to 20mA into 51 ohms
4 to 20mA into 51 ohms

DC Voltage

Any span between 0 and 10 Volts into 100K ohms
Minimum span 1 Volt DC

Potentiometer

3 wire potentiometer – 100 ohms
5 Volt DC supplied at screw terminals

DISPLAYS:

Display

3½ digit red LED

Digit Size

0.56"

Full Scale Range

-1999 to +1999

Scaleable to required engineering unit range

Decimal Point

Decimal point may be located as required – factory set or solder link selectable by user

RELAYS:

IDT-X 1 x SPCO relay

IDTT 2 x SPCO relays

Contact Ratings

Standard: 3A 230 Volt AC
Option: 10A 230 Volt AC

SUPPLY:

Power Supply Voltage

110 Volt AC ±10% 50/60Hz
240 Volt AC ±10% 50/60Hz
24 Volt DC

Power Required

6VA Maximum

Internal Fuse

315mA

Transmitter Power Supply

30 Volt DC nominal @25mA max

Warm Up Time

10 minutes

GENERAL:

Accuracy

0.2% ± 1 digit

Linearity

± 2 digits

Samples Rate

7 samples per second

Operating Temperature Range

0 to +50°C

Storage Temperature Range

-20 to +60°C

Operating/Storage Humidity Range

0 to 95% RH non-condensing

Mounting

Panel mounting

Panel Cut-out

91mm x 43mm

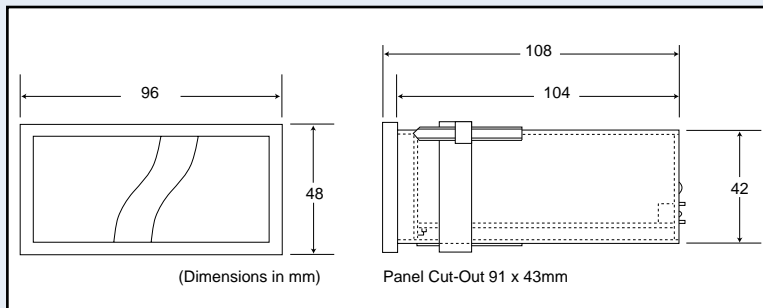
Protection Level

Box to IP55

Weight

ID56-X	335 gms
IDT-X	357 gms
IDTT	378 gms

MECHANICAL DETAILS



TERMINATION DETAILS

Terminal	Terminal
1 Live	7 Trip 2 Normally Closed
2 Neutral	8 Trip 2 Normally Open
3 Trip 1 Common	9 30 Volt DC nominal transmitter supply
4 Trip 1 Normally Closed	10 +5 volt dc potentiometer supply
5 Trip 1 Normally Open	11 Input +ve / potentiometer wiper
6 Trip 2 Common	12 Input -ve / potentiometer zero

ORDERING DETAILS

- Give identification code, i.e. IDTT
- Give details of power supply, i.e. 240 Volt AC
- Specify input type and range, i.e. 4 to 20mA
- Specify display ranging required, i.e. 0 to 150.0
- Specify trip levels, i.e. Trip 1 @ 40.0 and Trip 2 @ 120.0
- Specify if each trip level is either a High or Low Trip; and
- Specify if relays are to operate in Fail Safe or Non Fail Safe mode

i.e. Each trip can be designated either a High Trip (alarm condition above the set-point) or a Low Trip (alarm condition below the set-point) and the relays can be made to work in either a Fail Safe mode (normally energised or de-energise in the alarm condition) or a Non Fail Safe mode (normally de-energised to energise in the alarm condition).



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