

IC-DTS FLOW METER DISPLAY

The Metri DTS (Display Transmitter Switch) is an industrial flow meter display designed for use with Turbine and Paddlewheel flow sensors that have a magnetic mV output.

The DTS display offers users a simple easy to read control interface providing Analogue 4-20mA (Flowrate) with a High or Low relay alarm output. The alarm can be reset once a problem has been identified and resolved. The DTS accuracy can be further enhanced with an optional (Factory set) 10 point linearisation with the frequencies entered at each point. The unit will interpolate between these points to enhance the flow meter accuracy within the flow range and enhance repeatability.

The display itself is a 36mm x 28mm backlit LCD screen, making it easily visible in dimly lit areas. It has 2×10 characters of text providing quick access to flowrate, totalisation and alarm status information.

Flexibility is further enhanced with the option of a compact (sensor mounted) or remote display away from the flow meter when the meter location is in poor access areas or in higher temperature applications.

When the alarm is triggered the display flashes until the alarm setpoint hysteresis has been reached.

Features include:

- Compact or remote installation
- Visual alarm
- Local flow rate and totaliser indication
- Resettable totalizer
- Compatible with IC-LPM Paddlewheel or IC-LTM Turbine flow sensors
- The DTS can be fitted to a wide range of other flow meters, please contact us for further information.



Summary

- Brand: Metri
- Category: Flow Display
- Fluid type: Liquids
- Part Ref: IC-DTS
- IWN: FLO-20191128

Local or Remote Flowrate Totaliser

4-20mA Analogue Output

10 Point (Factory Set) Linearisation

Low / High Alarm Output

Backlit LCD Display

Fast & Easy Configuration

Suitable for the following market sectors:

- Industrial & Energy
- 💿 Oil & Gas
- 🛃 Research & Development
- Power Generation
- S Water & Wastewater

Compatible with a range of flow sensors, contact us for further information.

SPECIFICATION DETAILS		
Operating temperature	Local mount temps:	-40 to 65°C (Standard)
	Remote mount medium and high temps:	-40 to 350°C
Materials	Body:	304 stainless steel (standard); 316 (optional); other materials available on request
		Glass
Electrical connection	M12 x 8 pin	
Electrical specification	Nominal supply voltage:	24VDC, (Galvanic Isolation from the supply is critically important)
	Load current:	60mA
	Frequency range:	30Hz – 3Khz
Relay contact rating	Relay – SPST-NO:	Voltage free contacts
	Maximum voltage switching:	24 VDC
	Maximum current switching:	Milliamps – 500mA
	Note:	A fuse is recommended that is rated suitably for the rating of the load.
Approvals/Rating	CE/IP65, EN61326-1:2013 CAT 1, EN550011:2016 A1:2017	

DIMENSIONS

Hmm	W mm	W mm	D mm	Weight kg
69	69	190 max (inc cable plugs)	86	1.2

MODEL CONFIGURATIONS

Ordering information

IC-DTS – Standard base unit including:

- Flow display
- Totaliser display •
- 4 20mA output .
- Alarm visual output .
- . Alarm Relay switch .
- Remote reset
- Wall mounting plate

IC-DTSL – Linearisation unit including:

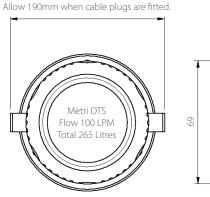
- . Features as standard base unit
- . Linearisation (Factory set)

VERSATILE CONFIGURATIONS

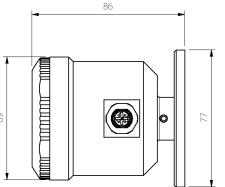
Ordering information for the IC-DTS Flow Meter Display

Flow units		
1	L= litres(Standard)	
	G = US Gallons	
	M ³	
	Ft ³	
Unit time		
	Seconds	
	Minutes (Standard)	
	Hours	
Display flow range		
See relevant data sheet (IC-LPM & IC-LTM)		
Hysteresis for alarm		
	2 seconds (Standard)	

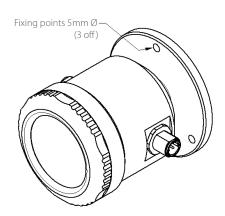
Alarm failsafe			
0	Normal (Standard)		
1	Failsafe		
Totalise	Totaliser auto reset		
0	Flash message on full		
1	Auto reset (Standard)		
Flow sample time			
0	2 seconds		
1	3 seconds (Standard)		
2	5 seconds		
Totaliser update time			
0	2 seconds (Standard)		
1	3 seconds		
2	5 seconds		
Linearisation			
0	None (Standard)		
1	Linearisation		



87 (Connector Sockets)



5 seconds 10 seconds

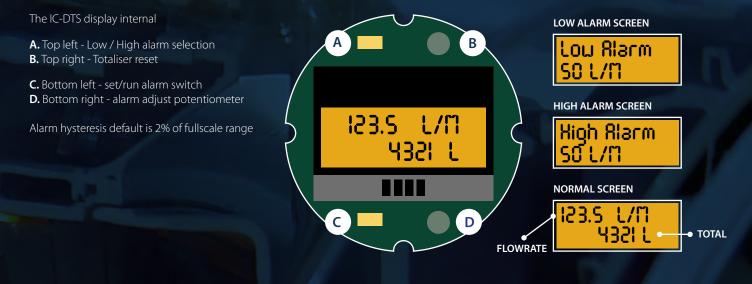


SCOPE OF DELIVERY

The IC-DTS display is supplied as remote or fitted to IC-LPM Paddlewheel or IC-LTM Turbine flowmeters.

IC-DTS display is a Flow rate and Totaliser with 4-20mA and Relay output Alarm switchpoint that can be set as high or low anywhere in the flow range.

SWITCH/ALARM ADJUSTMENT - USER SETTABLE

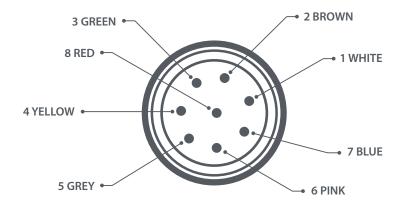


MODEL FACTORY SET SPECIFICATION

Default is 2 seconds 3 seconds
L = Litres G = gallons $M^3 = Metres Cubed$
S = Secs M = Min H = Hour
2 secs
Close on Alarm - option to set to Open on Alarm (Failsafe)
Default 2% of FS
Auto Reset on full and manual reset button

CONNECTIONS M12 WIRE COLOURS

+ 24VDC	= Brown
- 0VDC	= Blue
+ 4-20mA	= Red
- 4-20mA	= Green
Relay output	= White
Relay common	= Grey
Remote Reset for totaliser	= Pink & Yellow Wires



Tailored Solutions and High Quality Engineering **MADE IN**

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