

CT 100S

CONDUCTIVITY / TDS TRANSMITTER



Features

- On-Line Measurement
- Non Volatile memory retains program settings during power failures
- 4-20 mA DC Output / 4-20 mA with HART (Generic)
- Auto / Manual Temperature Compensation
- On-Line Indication through LCD Display
- Simple Operating Interface
- 2 Wire System



Description

Electronet series CT-100S are Conductivity transmitters used for various industrial applications. It can accept input from conductivity electrode of cell constant 0.01 / 0.1 / 1 & conductivity signal is transmitted in the form of electrical 4 - 20 mA signal. The on-line conductivity indication is provided through LCD. Span/Zero adjustments are easily accessible.

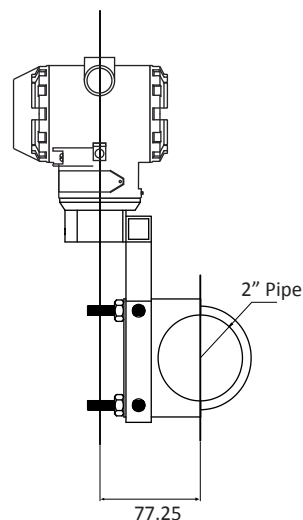
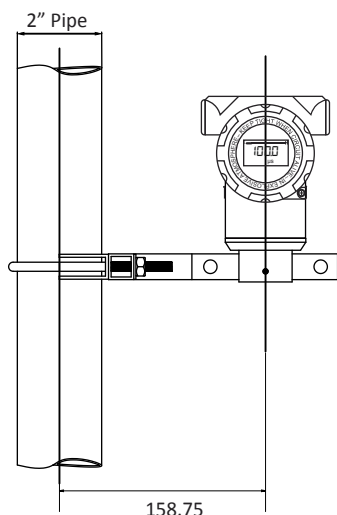
Technical Specifications

Type of Input	From Conductivity Electrode		
Cell Constant	0.01 / 0.1 / 1		
Calibration Range	Factory Calibrated	1	0 to 99.99 µS/cm for cell constant 0.01
		2	0 to 999.99 µS/cm for cell constant 0.1
		3	0 to 9999.99 µS/cm for cell constant 1
Power Supply	24V DC Two Wire Loop Powered		
Power Consumption	< 50 mW		
Display	Local display LCD with backlit		
Type of Output	4-20 mA DC Output / 4-20 mA with HART (Generic)		
Electronics Transmitter Accuracy	+/- 0.25% F. S.		
Response Time	< 500 mSec		
Temperature Coefficient	+/- 0.01% per °C		
Temperature Compensation	RTD PT-100 / RTD PT-1000		
Ambient Conditions	Temperature -20 to 55 °C / Humidity 5 to 95% non condensing		
Isolation	1.4 KV between Input, Output & Power Supply		
Sensor Connection	1) Through BNC connector 2) Through Terminals		
Conduit Entry	1) M20X1.5 (F) 2) ½" NPT(F)		
Dimensions	155 mm (H) x 105 mm (W) X 130 mm (D)		
Mounting	2" Pipe Mounting		
Electronic Protection Class	Flame Proof CMRI IIA IIB / Weather Proof IP-67		
Housing	Cast aluminum with epoxy coating NEMA 4X / SS316		
Weight	1kg (Approximate)		
Flow Through Assembly (Optional)	SS316 / PP		
Certification	CE		

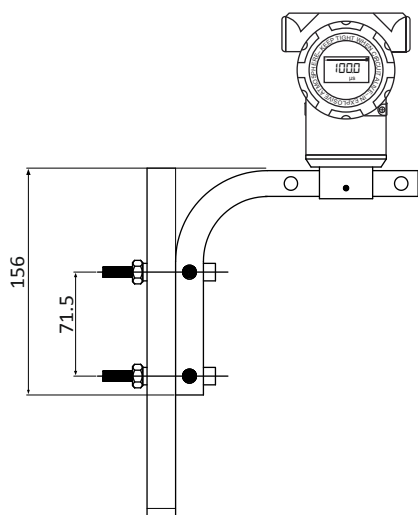
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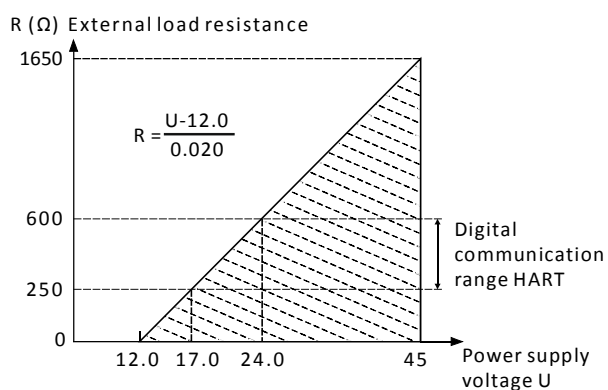
Pipe Mounting Panel



Wall mounting Panel



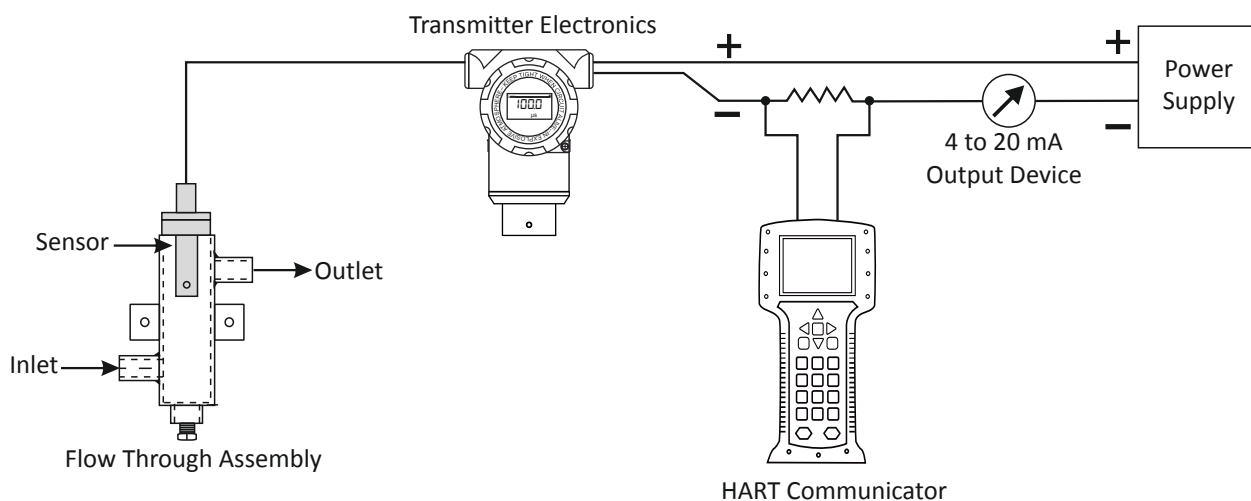
Power Supply & Load Requirements



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Loop Diagram



Ordering Information

Sample Order Code : CT 100S-A1-B1-C1-D1-E1-F1-G1

Parameter	Code	Description	Parameter	Code	Description
A Mounting Type	A1	Panel Mount (96 X 96)	D MOC Electronics Enclosure	D1	Aluminium Die Cast PU Painted
	A2	Field Mount (2"Pipe Mount)		D2	SS-316
B Cell Constant	B1	Conductivity (Cell Constant 0.01) (5 to 100 micro simens)	E Electrical Connection	E1	M20 X 1.5 (F)
	B2	Conductivity (Cell Constant 0.1) (5 to 1000 micro simens)		E2	1/2" NPT (F)
	B3	Conductivity (Cell Constant 1) (100 to 10000 micro simens)		E3	M12 Connector
C Area Classification - Electronic	C1	Weather Proof IP-54		EY	Other
	C2	Weather Proof IP-67	F Temperature Compensation	F1	RTD PT-100
	C3	Flameproof (CMRI IIA IIB Certified)		FY	Other
G Output 1	G1	4 to 20 mA		FX	NA
	G2	4 to 20 mA with HART (Generic)			

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.
- Sensor & other accessories to be ordered separately.
- This product is meant for laboratory/Process application only and not for custody transfer application.

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