TCSMA - Loop-Powered, Isolated Toroidal Conductivity Transmitter





4-20mA isolated output, loop-powered (16-35V DC)

User-adjustable temperature compensation (0-4%/ deg C)

Selectable measuring ranges

Adjustable zero and span

Direct/reverse operation

Nema 4X enclosure with multiple mounting configurations

The TCSMA model is designed for on-line monitoring of water treatment applications and aggressive process chemicals. This blind transmitter is ideally suited for applications where 4-20mA signals are required and reliable instrumentation is critical.

Key features include: selectable measuring ranges, adjustable temperature compensation (%/deg C), isolated output and reversible cell drive.

A Nema 4X (IP66) enclosure provides durability. A variety of mounting choices are available for Wall, Pipe or DIN Rail installation.

Pair the TCSMA with a TCS3020 toroidal sensor for trouble-free service. TCS3000 and TCS3020 sensors are offered in Noryl construction and can be mounted in a custom flow cell (FC95C) for in-line use.



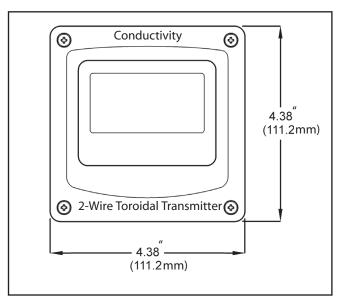
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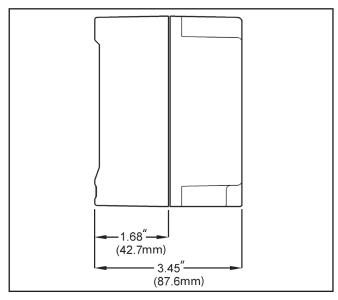
Specifications-Transmitter

0-100,000 uS, - preset at factory as 4-20mA
2000-2500uS / 2500-15,00uS / 15,000-100,000uS / 100,00-1,000,000uS
0.1% of span
0.2% of span
1% of span for span > 3000uS/cm 2% of span for span <3000uS/cm
<1% span per month, non-cumulative
-20 to 60deg C, 0-95% R.H. non-condensing conditions
0.06% of range/degC, span or zero
0.2% of range per 24 hours, non-cumulative
16-35V DC (2-wire device)
16 V DC
Inherently isolated by sensor design
NEMA 4X (IP66) polycarbonate, wall, pipe or DIN Rail mount. Weatherproof and corrosion resistant. Dimensions = 4.4" (112mm) H x 4.4" (112mm) W x 3.5" (89mm) D.
1lb (0.45Kg)
2 each PG-9. Cord grips included.
Pt1000RTD. Compensation adjustable from 0.0%/deg C to 4.0%/deg C
200ft. (61.0m)
5 seconds to 90% full scale

Ordering Information		
Part Number	Description	
TCSMA	Blind, Loop-powered, 4-20mA toroidal conductivity transmitter (16-35VDC power supply not included)	
TCS3020	Keyed Noryl toroidal conductivity sensor. Includes 20ft of cable and tinned wire terminations	
FC95C	Keyed CPVC flow cell for TCS3020. Includes nut and o-ring seal.	
For more details on toroidal conductivity sensors and flow cell, request toroidal conductivity sensor spec sheet or visit www.sensorex.com		
Noryl® is a trademark of SABIC INNOVATIVE PLASTICS IP B.V.		

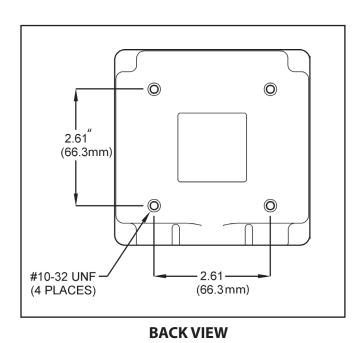
Outline Drawings of TCSMA





FRONT VIEW

SIDE VIEW



1" NPT

.82"
(20.8)

PG-9 PORT
(31.2mm) (31.2mm) (2 PLACES)

BOTTOM VIEW