

TCS3020 SERIES TOROIDAL Conductivity Sensor

TCS3020 SERIES TOROIDAL



Digital Communication for More Process Visibility:

- Modbus and 4-20 mA output options now available
- Configuration and calibration can be done using web based software

Corrosion, Coating and Fouling Resistant

- Noryl body has a wide solvent tolerance and temperature stability to 105 C
- Can be installed in line using the FC95C flow cell or submersed via the 3/4" MNPT threads

Wide Measurement Range

- Can measure conductivity from 0 - 2,000,000 uS/cm

Specifications

Measuring Range	0-2,000,000 uS/cm
Body Material	Noryl
Max Temperature	105°C (*If used with FC95C flow cell, maximum temperature is 80°C)
Max Pressure	150 psig (70°C Max with MB2 module)
Temperature Compensation	User specified temperature elements, -P1k for TCSMA transmitter, or NTC-30K/PT-1000 for EX2000RS transmitter & modbus versions
Cable Length	20 feet, 6 conductor plus shields
Process Connection	3/4" MNPT for submersion, 2" slip fitting with FC95C flow cell

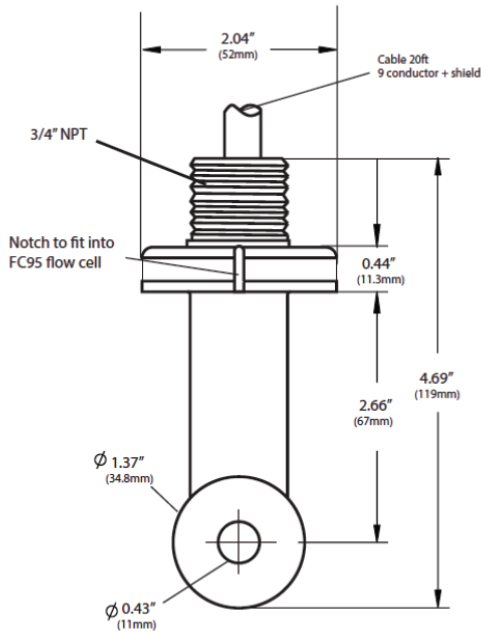
DESIGNED AND ASSEMBLED IN CALIFORNIA, USA

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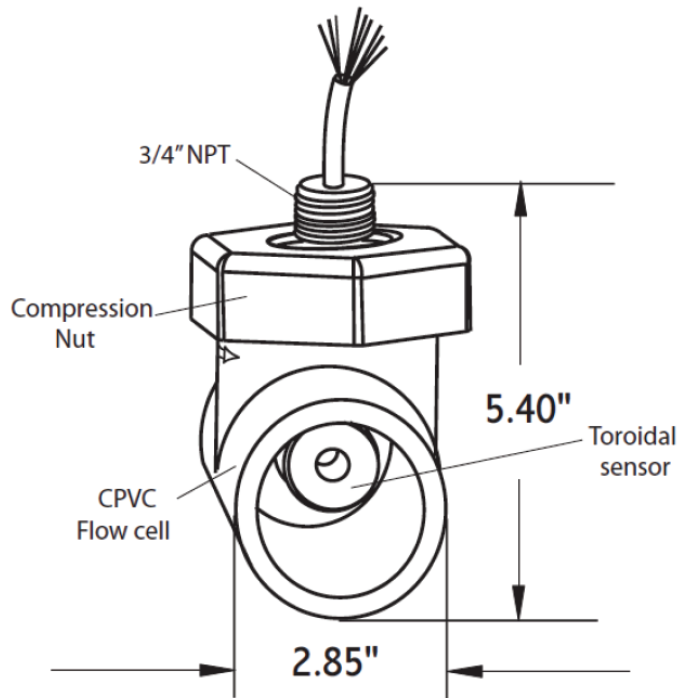
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Dimensional Views

TCS3000 and TCS3020



TCS3020 IN FC95C FLOW CELL



Ordering Information

Part #	Description
TCS3020/ PIK/20/TL/TL	Noryl Toroidal Sensor with 20-30 windings
TCS3020/ P1K/20/R1/ MB2	24V DC Powered Toroidal sensor with Modbus 485 output, range = 0-100,000 uS/cm
TCS3020/ P1K/20/R2/ MB2	24V DC Powered Toroidal sensor with Modbus 485 output, range = 0-2,000,000 uS/cm
EX2000RS	100-240VAC Powered Toroidal Controller with display, 4-20mA + RS485 outputs <i>(TCS3020 only)</i>
TCSTX	24VDC Powered Toroidal transmitter with display, 4-20mA output <i>(TCS3020 only)</i>
FC95C	2" Keyed Slip Fit Flow Cell
CALBOX	Interface to calibrate, configure, and monitor sensor with a USB connection

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MODEL # TCS3020

DESCRIPTION

CODE

X

X

X

X

X

X

MEASUREMENT TYPE

Toroidal Conductivity

COMMUNICATION & POWER

4-20mA Output

Modbus output with 12VDC

Modbus output with 24VDC

- MA

- MB1

- MB2

MEASUREMENT RANGE

0-100 mS Range

0-200 mS Range

R1

R2

LEADS

Tinned Lead Connector

TL/TL

FLOW CELL

None

Flow Cell

+FC95C

CALIBRATION ACCESSORY

None (Replacement probe)

Calibration Box

(Only 1 needed for multiple sensors)

CALBOX

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