

pH and ORP Electrodes for Online Process Monitoring



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

Long Lasting Sensor Life

- Double junction prevents reference contamination
- Flat glass measurement surface reduces the threat of breakage

Versatile Sensor for a Variety of Applications

- Reliable performance in demanding applications
- Recommended applications include: chemical processing, industrial water treatment, potable water systems, boiler feedwater, and municipal wastewater plants

Specifications

pH Measurement Range	0-14 pH (Sodium ion error when $12.3 < \text{pH}$), Modbus (0-14pH) for -MB models
ORP Measurement Range	$\pm 2000\text{mV}$, Modbus (-2000 to + 2000mV) for -MB models
Body Material	Ryton® Polyphenylene Sulfide (PPS)
Temperature Range	0-100°C (32-212°F) 70°C with Modbus models
Pressure Maximum	100 psig
Cable Length/	Connector 3m (10ft) Standard or Custom (by request) BNC or Tinned Leads Standard or Custom (by request), Tinned leads standard for -MB models
Process Connection	3/4" NPT Threaded

Parts covered in this data sheet include: S272CD, S272CDTC, S272CD-ORP, S272CDTC-MB2, S272CD-ORP-MB2

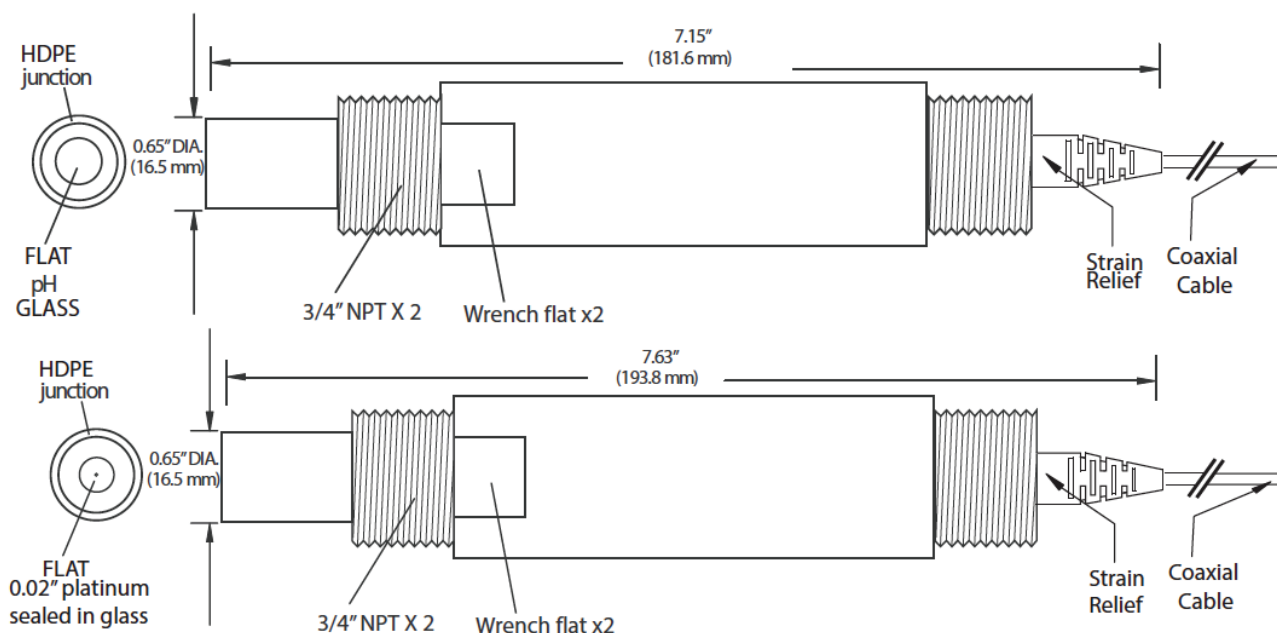
DESIGNED AND ASSEMBLED IN CALIFORNIA, USA

11751 MARKON DRIVE • GARDEN GROVE, CA 92841 • 714.895.4344 • WWW.SENSOREX.COM

© Sensorex Corporation. All rights reserved. In the interest of improving and updating its equipment, Sensorex reserves the right to alter specifications to equipment at any time.

Dimensional Views

S272CD / S272CDTC S272CD-ORP



Ordering Information

Part #	Description
S272CD	Ryton® body in-line pH electrode with 3 m cable, tinned tead or BNC connector
S272CDTC	Ryton® body in-line pH electrode with 3 m cable (built in ATC), tinned tead or BNC connector
S272CD-ORP	Ryton® body in-line ORP electrode with 3 m cable, tinned tead or BNC connector
S272CDTC-MA	Ryton® body in-line pH electrode with 3 m cable, tinned teads, 4-20mA = 0-14pH
S272CD-ORP-MA	Ryton® body in-line ORP electrode with 3 m cable, tinned teads, 4-20mA = 0-14pH
S272CDTC-MB2**	Ryton® body in-line pH electrode with 3 m cable, tinned leads, Modbus 485 output
S272CD-ORP-MB2**	Ryton® body in-line ORP electrode with 3 m cable, tinned leads, Modbus 485 output
CALBOX - MB	Interface to calibrate, configure, and monitor sensor with a USB connection

NOTE: ** Also available with 12V DC power option. Contact Sensorex for details.

Doc. #450006 Revision A: Published 7/21/16

DESIGNED AND ASSEMBLED IN CALIFORNIA, USA

11751 MARKON DRIVE • GARDEN GROVE, CA 92841 • 714.895.4344 • WWW.SENSOREX.COM

© Sensorex Corporation. All rights reserved. In the interest of improving and updating its equipment, Sensorex reserves the right to alter specifications to equipment at any time.



S272 Series pH & ORP Sensors

MODEL # S272CD

DESCRIPTION

CODE

X

X

X

X

X

MEASUREMENT TYPE

PH

TC

ORP

-ORP

COMMUNICATION & POWER

4-20mA Output

- MA

Modbus output with 12VDC

- MB1

Modbus output with 24VDC

- MB2

CABLE LENGTH

10 Foot cable

10

LEADS

Tinned Lead Connector

TL/TL

CALIBRATION ACCESSORY

None (Replacement probe)

NA
(Leave Blank)

Calibration Box

(Only 1 needed for multiple sensors)

CALBOX - MB

DESIGNED AND ASSEMBLED IN CALIFORNIA, USA

11751 MARKON DRIVE • GARDEN GROVE, CA 92841 • 714.895.4344 • WWW.SENSOREX.COM

© Sensorex Corporation. All rights reserved. In the interest of improving and updating its equipment, Sensorex reserves the right to alter specifications to equipment at any time.