SMART SENSOR REMOTE ELECTRONICS - PRODUCT INSTRUCTIONS

INTRODUCTION

Thank you for choosing Sensorex Smart Sensor Remote Electronics. This instruction manual covers all remote electronics modules for PH, ORP, DO, contact conductivity(CCOND), toroidal conductivity(TOR),free chlorine(FCL) and chlorine dioxide(CLD) sensors. The remote electonics modules are offered in DIN Rail and blind enclosure version. Output for the modules (either Modbus RTU or 4-20mA) is marked on the product label.

WIRING - SENSOR INPUT -DR

pH - See Fig 1 - note: electrodes without temperature requires a 1.1K Ohm resistor between terminal #6 & #7.

ORP - See Fig 2

DO - See Fig 3

CCOND - See Fig 4- note: electrodes without temperature requires a 1.1K Ohm resistor between terminal #3 & #4.

TORCOND- See Fig 5

Note: Communication output and power cables will be supplied by the user.

WIRING - MODBUS 485

V+(9) = 24VDC

V- (17) = (GND)

MODBUS A = (10)

Modbus B = (11)

WIRING - 4-20MA (FIG 5A)

V+(9) = 24VDC + CONNECT TO POWER SUPPLY +

V- (12) (GND) - CONNECT TO PLC INPUT

POWER SUPPLY - CONNECT TO PLC GND

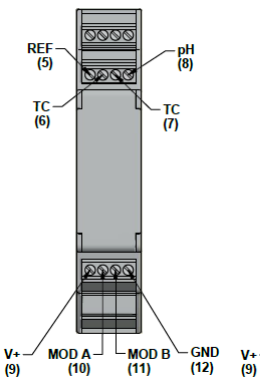


FIG 1-PH DR

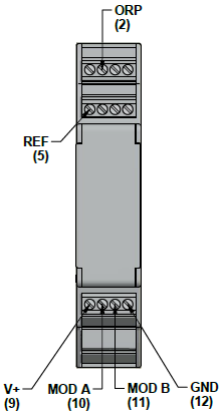


FIG 2-ORP DR

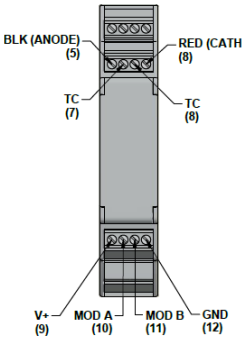


FIG 3-DO DR

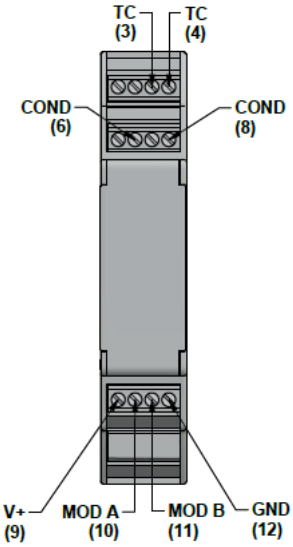


FIG 4-CCOND DR

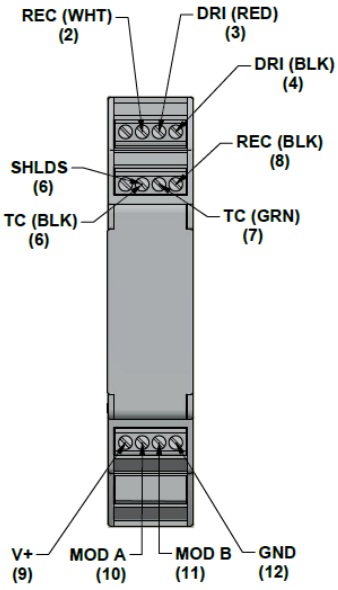


FIG 5-TOR COND DR

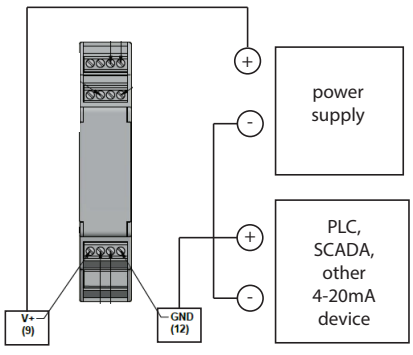


FIG 5A- 4-20MA WIRING

Parts covered by this instruction sheet: SSRE all models

INSTRSSRE04122024

DESIGNED AND ASSEMBLED IN CALIFORNIA, USA
11751 MARKON DRIVE • GARDEN GROVE, CA 92841 • 714.895.4344 • WWW.SENSOREX.COM

PRODUCT NAME
PRODUCT INSTRUCTIONS

WIRING - SENSOR INPUT -EN

pH - See Fig 6 - note: electrodes without temperature requires a 1.1K Ohm resistor between terminal #6 & #7.

ORP - See Fig 7

DO - See Fig 8

CCOND - See Fig 9- note: electrodes without temperature requires a 1.1K Ohm resistor between terminal #6 & #7.

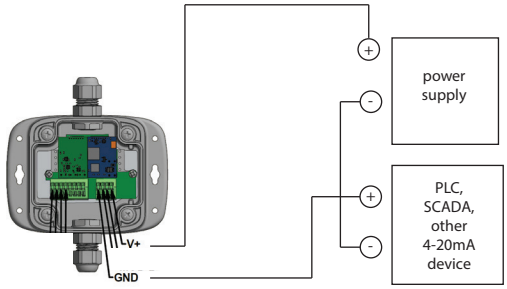
TORCOND - Fig 10.

Note: Communication output and power cables will be supplied by

WIRING - MODBUS 485

SEE FIGURES 6 -10

WIRING - 4-20MA (FIG 5A)



SMART SENSOR ELECTRONICS CONFIGURATIONS

Model SSRE-X-Y

X Choices:

- P = pH
- O= ORP
- T = Toroidal Conductivity
- D = Dissolved Oxygen
- C = Contacting Conductivity
- F = Free Chlorine

Y Choices:

- DR = Din Rail Enclosure
- EN = Enclosure Box

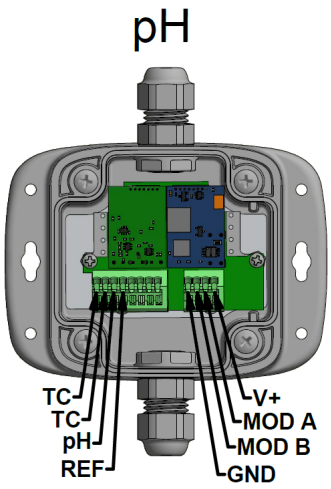


FIG 6-PH EN

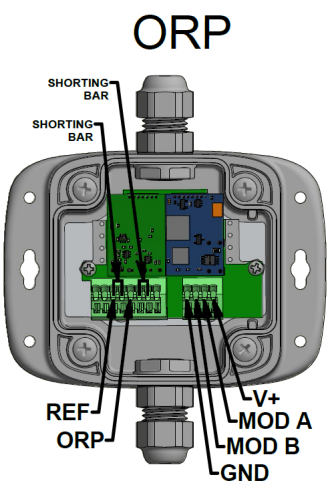


FIG 7-ORP EN

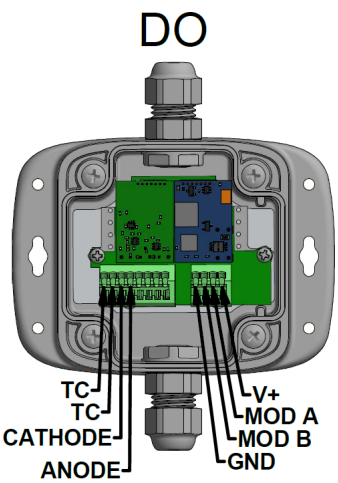


FIG 8-DO EN

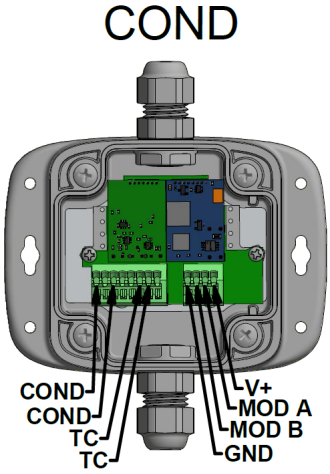


FIG 9-CCOND EN

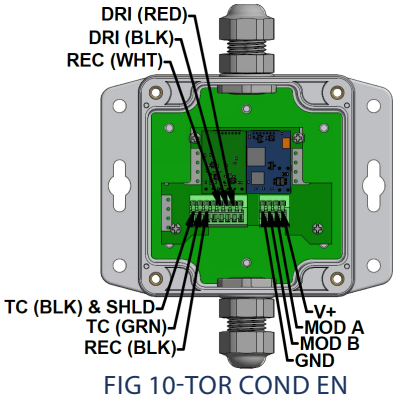


FIG 10-TOR COND EN

INSTRSSRE04122024