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 #6 & #7.

TORCOND - See Fig 10- Note: each bundle of wires has a black wire. Make sure to note which bundle. RED = DRIVE DRI), WHITE = Receive (REC), GREEN = temperature (TC) See Fig 5.

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

WIRING - POWER INPUT -DR

V+ - see label for either +12VDC or +24VDC
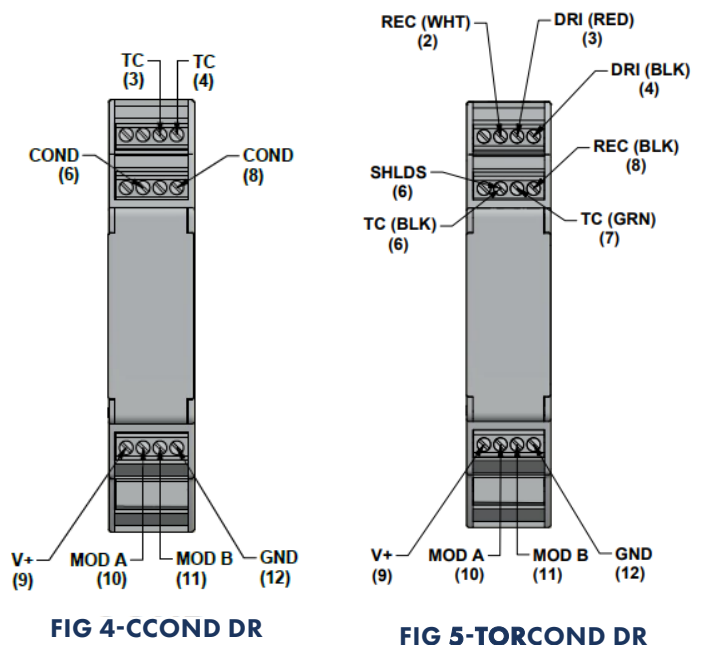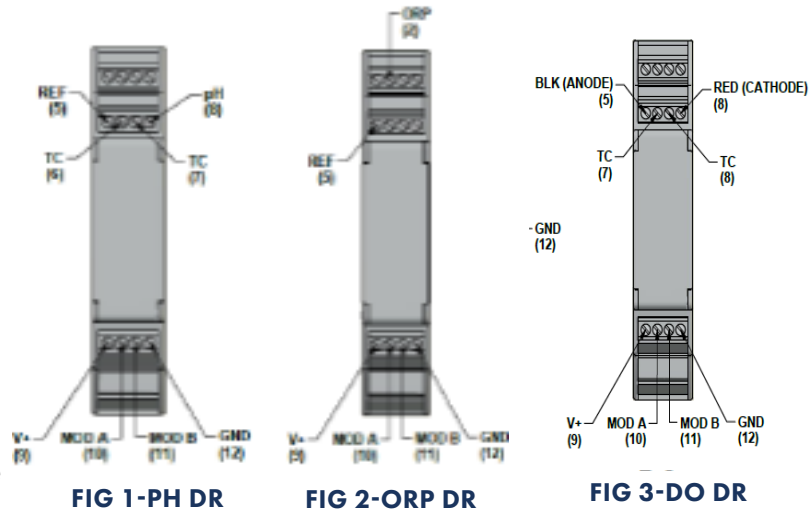V- (GND)

WIRING - OUTPUT MODBUS 485

V+(9) - see label for either +12VDC or +24VDC

V- (17) (GND)

MODBUS A (10)

Modbus B (11)

Parts covered by this instruction sheet: SSRE all models

FIG 1-PH DR **FIG 2-ORP DR** **FIG 3-DO DR**

FIG 4-CCOND DR **FIG 5-TORCOND DR**

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 - See Fig 10- Note: each bundle of wires has a black wire. Make sure to note which bundle. RED = DRIVE DRI), WHITE = Receive (REC), GREEN = temperature (TC)

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

WIRING - POWER INPUT -DR

V+ - see label for either +12VDC or +24VDC

V- (GND)

SMART SENSOR ELECTRONICS CONFIGURATIONS

X Choices:
Model SSRE-X-Y

    M = pH, ORP, DO, FCL, CLD
    T= Toroidal Conductivity
    C = Contacting Conductivity

Y Choices:
    DR = Din Rail Enclosure
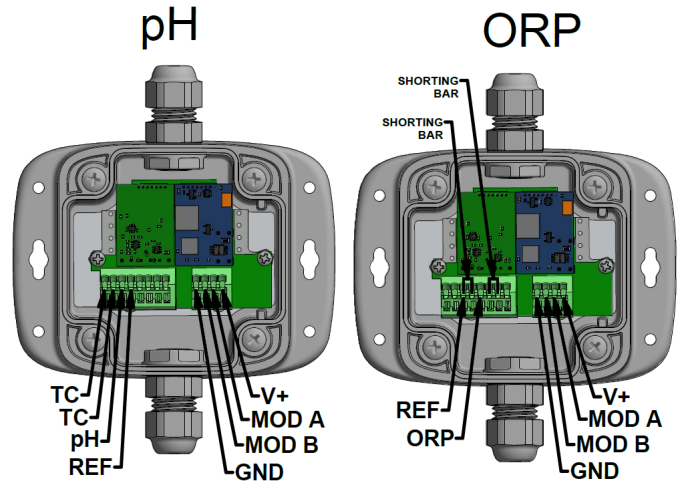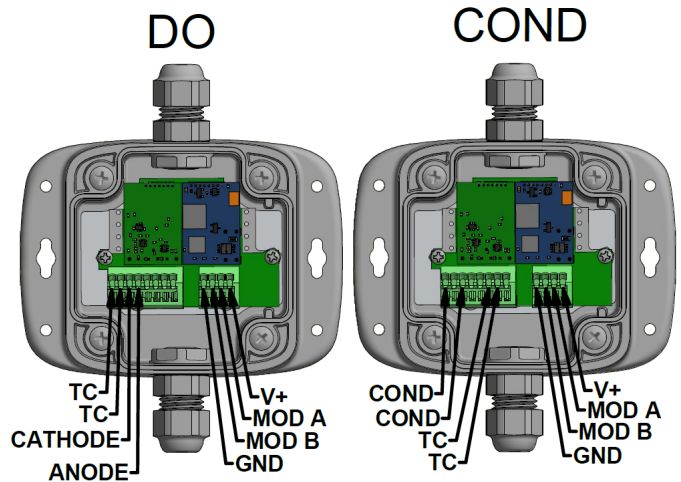   EN = Enclosure Box

pH

TC
TC
pH
REF
V+
MOD A
MOD B
GND

FIG 6-PH EN

ORP

SHORTING BAR
SHORTING BAR
REF
ORP
V+
MOD A
MOD B
GND

FIG 7-ORP EN

DO

TC
TC
CATHODE
ANODE
V+
MOD A
MOD B
GND

FIG 8-DO EN

COND

COND
COND
TC
TC
V+
MOD A
MOD B
GND

FIG 9-CCOND EN

DRI (RED)
DRI (BLK)
REC (WHT)
TC (BLK) & SHLD
TC (GRN)
REC (BLK)
V+
MOD A
MOD B
GND

FIG 10-TORCOND EN