

NeoTec signal converter

Convert Analog Sensors into Smart Sensors

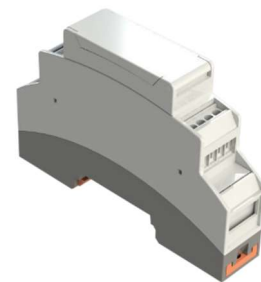
- Reduce inventory by stocking analog sensors and wire them to remote electronics to output a communication signal (4-20 mA or Modbus 485)
- Save on costs by only replacing the sensor; keep remote electronics and cabling in place
- Improve environmental impact by eliminating electronics waste after sensor end of life

Compatible with a Comprehensive Set of Measurements

- pH/ORP, Contacting Conductivity, Toroidal Conductivity and Dissolved Oxygen
- Simple wiring for each measurement type

Two Versions for Your Ideal Application

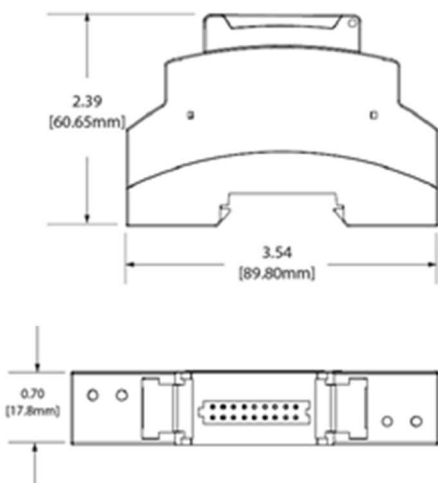
- Interface module for DIN Rail installation
- NEMA 4X Enclosure for wall or panel mounting



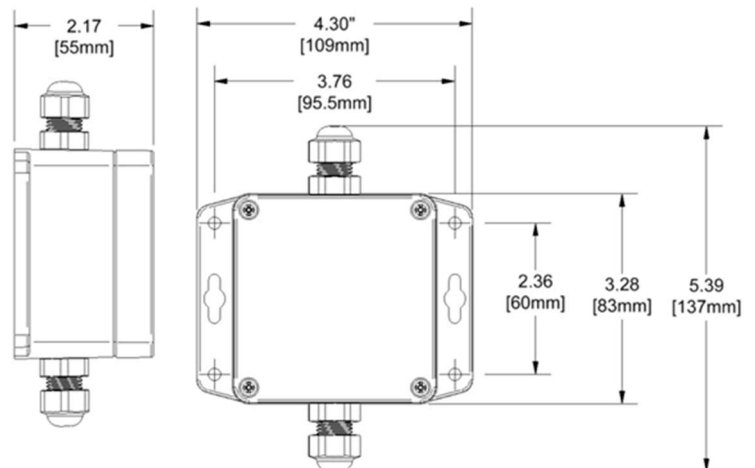
Specifications

Operating Temperature Range	5° - 70° C (41° - 158° F)
Measuring range pH	0-14
Measuring range ORP	-1500 to + 1500mV
Measuring Range, Contacting Conductivity	K = 0.1, 0-1.000uS/cm
	K = 1.0, 0-10.000uS/cm
Measuring Range, Toroidal Conductivity	R1 = 0-100.000uS/cm
	R2 = 0-2.000.00uS/cm
Measuring Range, Dissolved Oxygen	R1 = 0-100%
	R2 = 0-200%

DIN RAIL VERSION



NEMA 4X ENCLOSURE VERSION



INTRODUCTION

Thank you for choosing the NeoTec signal converter moduls. The following instructions 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 electronics 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 (DR = DIN RAIL Version)

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 5

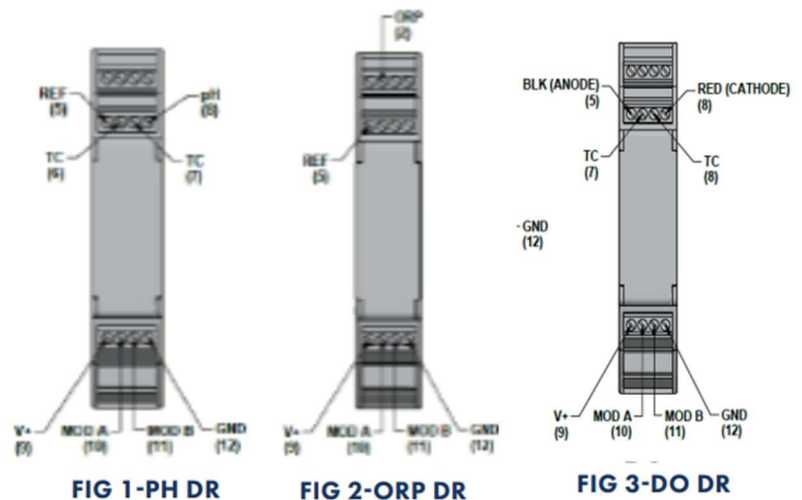
Note: each bundle of wires has a black wire. Make sure to note which bundle.

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)

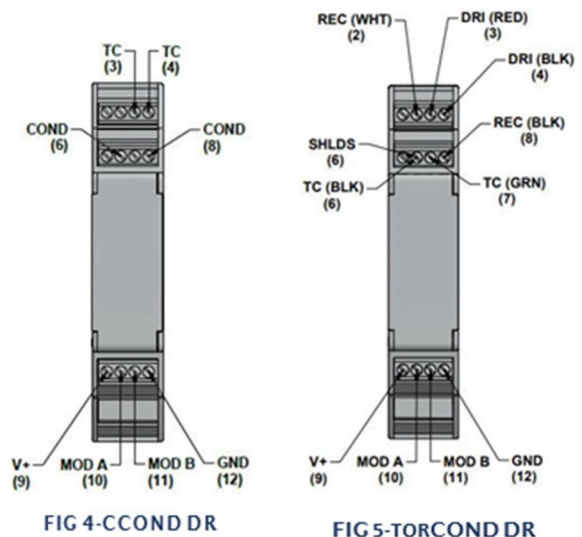
WIRING - OUTPUT MODBUS 485

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

V- (17) (GND)

MODBUS A (10)

Modbus B (11)



WIRING - SENSOR INPUT -EN (EN = ENCLOSURE VERSION)

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 +24 VDC

V- (GND)

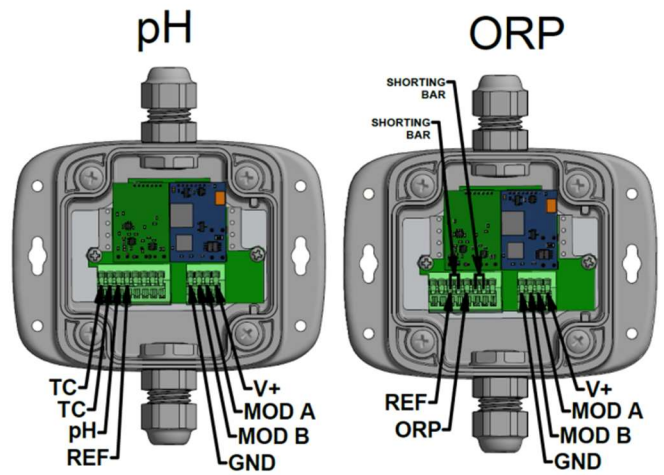


FIG 6-PH EN

FIG 7-ORP EN

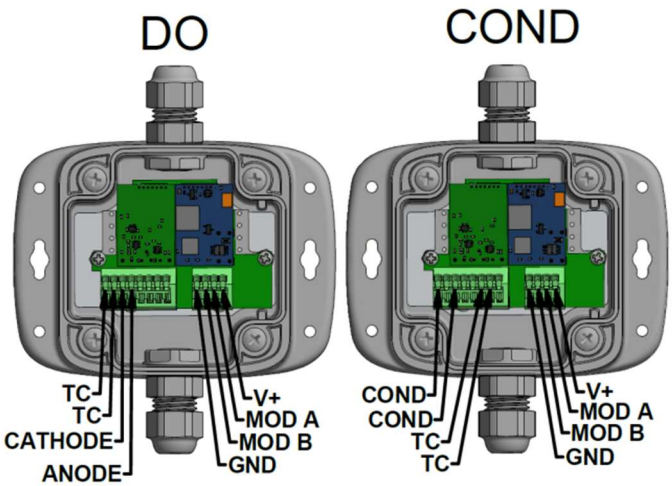


FIG 8-DO EN

FIG 9-CCOND EN

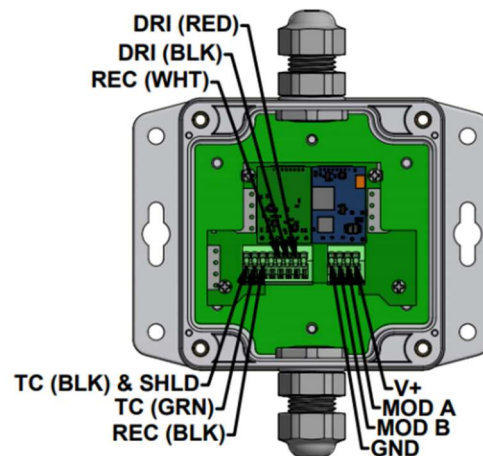


FIG 10-TORCOND EN