

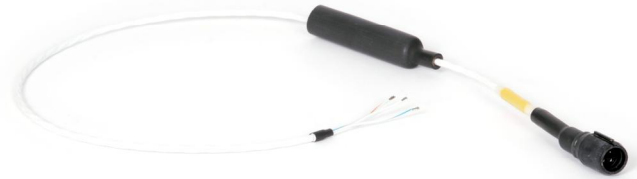
Features

- Ratiometric signal conditioner for potentiometers and sensors
- High precision 5.0V supply output
- Rugged construction and small size
- Watertight mini sure-seal® connector

Description

The MODPOT conditions resistive potentiometers and ratiometric sensors. It has tree flying leads for connectivity with the sensor.

The MODPOT supplies 5.0V (orange wire is V+, blue wire is GND), with a precision of ±5mV over the operating temperature range and up to 30mA DC. The MODPOT input voltages are 0-5V on its signal input line (white wire).



Installation

Setup:

- Connect the Orange wire (+5V), the Blue wire (GND) and the White wire (Signal) to the sensor
- Connect the module to an analog input of the system: A, B or C. Carefully align indexing rib when mating mini sure-seal® connectors
- Do not bend cable with curvature radius smaller than 1.60" (40 mm)
- Route the cable at least 20cm (8") away from high interference electrical devices, such as: ignition coils, plug leads, high-current leads, high emission electronic modules or antennas
- Verify that the cable is not pinched or stretched by moving parts

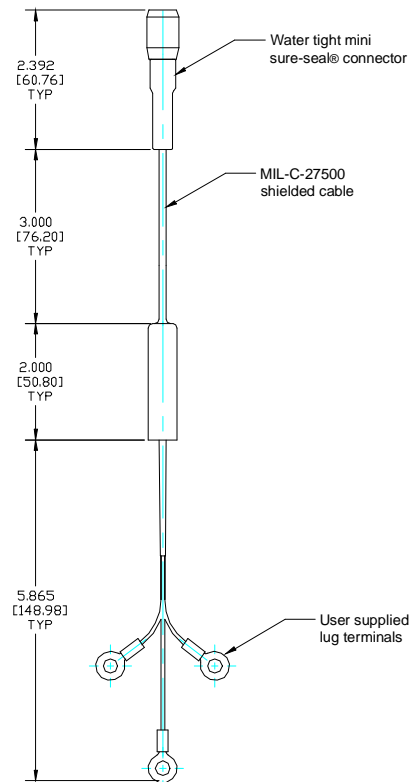
Software configuration:

Refer to the section 'Real Time Calibration Wizard' of the Analyzer User Guide.

Specifications

Description	Symbol	Min	Typ	Max	Unit
Power requirements					
Input voltage	V_{in}	10		30	V
Input current	I_{in}	5		7	mA
Output power					
Output voltage	V_{out}	4.995		5.005	V
Output current	I_{out}			30	mA
Measurement					
Signal Input	V_{sign_in}	0		5	V
Performance					
Temperature drift			5		ppm/°C
Environment					
Operating Temperature	T_{Oper}	-40 (-40)		85 (185)	C (F)
Mechanical characteristics					
Weight	Wt		50 (1.76)		g (oz)

MODPOT



All dimensions are in inches [millimeters].