

TRANSMITTER OC35P-DAY SENSOR OCNT 25

Owner's Manual

ORBIT CONTROLS AG

Zürcherstrasse 137
CH-8952 Schlieren/ZH

Tel: +41 44 730 2753

Fax: +41 44 730 2783

info@orbitcontrols.ch
www.orbitcontrols.ch

- ✓ **Input for 1k Ω to 100k Ω Potentiometers**
- ✓ **Two independent Outputs:
Current Output 4-20mA
Voltage Output 0-10V**
- ✓ **Fast response Time**
- ✓ **For 35 mm DIN - rails**
- ✓ **Supply 24V DC**



OC35P-DAY is an analogue transmitter for potentiometric sensors. It converts the mechanical linear or rotational movement into a proportional analogue output signal. Two outputs are available, 0 - 10V and 0/4 - 20mA. The current output can be set for 0 or 4mA inside the transmitter.

OC35P-DAY is a high accuracy, stability and attractive price device. Potentiometric sensors between 1k Ω and 100k Ω can be connected. For rotative sensors the output signal can be calibrated in degrees e.g. 0 ... 345 ° = 4 - 20mA.

The connected sensor is supplied with a stable voltage reference. Very high input impedance of the transmitter assures extremely small current flowing through the potentiometer's rider.

Fast response time makes the transmitter suitable for applications in which the generated signal has to follow very fast the mechanical movements of the sensor.

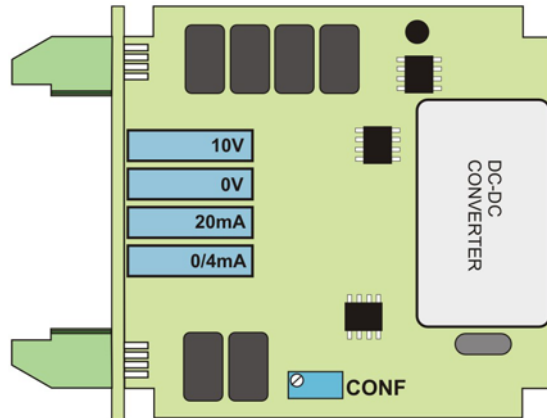
The transmitter is supplied with 24VDC and is enclosed in a cabinet for DIN 35mm rails. The connection is via screw terminals.

SPECIFICATIONS

Input:	1k Ω - 100k Ω potentiometric sensors with three terminals.
Input Impedance:	10 G Ω .
Voltage Output:	0 - 10V, max. load of 10k Ω . The response time is 5ms.
Current Output:	0/4-20mA, load 0 ... 300 Ω . 0 or 4mA are selectable.
Accuracy:	\pm 0.1% from range.
Tempco	25ppm/K.
Excitation	1.235V, max. load 1mA.
Supply:	24VDC \pm 10%, 2W.
Case:	25 x 60 x 70mm, weight 75g.
Terminals:	Screw terminals

CALIBRATION

The instrument has been precisely calibrated at the factory. If recalibration or readjustment of the output signals is required, the potentiometers at the instrument's front can be utilised.



Calibration Steps with Displacement Transducer connected

The transmitter has been precisely calibrated at the factory. When recalibration is required, follow the next steps:

1. Connect the sensor and set it to zero position, corresponding to output signals 0V and 0mA or 4mA
 2. Adjust **0V** for 0V at the output.
Adjust **0/4 mA** for 0mA or 4mA at the output, whatever required.
 3. Set the sensor for the maximum displacement, corresponding to 10V and 20mA.
 4. Adjust **10V** for the output of 10.00V.
Adjust **20mA** for the output of 20.00mA.
 5. Adjust **CONF** to obtain the same output current of 20mA with or without a resistor of 270 Ohm connected externally to the current output. The Potentiometer CONF is placed inside the instrument.
- Repeat the calibration steps when required.

Transmitter connected to Linear Displacement Sensor OCNT 25

