Sales Technology Inc

Condition Monitoring Custom Products

"Vibration Monitoring and Machine Protection Systems"

2911 S. Shore Blvd., Ste. 170, League City, TX 77573 Phone: 281.334.0766 Fax: 281.334.4255

Condition Monitoring Custom Products

www.stiweb.com

# CMCP575
# Speed Transmitter

- **Low Speed Response**
- **Smart Touch Calibration**
- **0.032 Hz to 38 KHz Response**
- **+/-0.1% Accuracy**
- **Selectable Output (mA or VDC)**
- **Low Cost**
- **Small Size**
- **Din Rail Mount**
- **Universal Input (Including Eddy Probes)**

The CMCP-575 Speed Transmitters are compatible with proximity probes or Hall effect inputs, they provide a 4-20mA output proportional to the overall measurement. Each unit provides power for the associated transducer, processes the signal, and outputs a 4-20mA dc current that is proportional to a users specified range, such as 0-1000 RPM. Combining transmitters with an existing PLC or DCS system results in a high density, low cost monitoring system.

**Displays And Assemblies:**
Various display options, NEMA and explosion-proof enclosures, and assembled multi-channel systems are available. Consult your sales representative.

**Mounting:**
32 mm (G-style) or 35 mm (T-style) Din Rail.

**Ordering Example:**
To order a standard speed transmitter that accepts input from a proximity probe system, with a full scale of 1,000 RPM, 60 events per revolution, specify Part Number: CMCP-575-01-60-01

**Notes:**
1. The Full Scale option specified at order entry is used by the factory for initial calibration. However, several other ranges can be jumper selected in the field.
2. Transducer and Full Scale options not listed are available. Contact your sales representative.

**Specifications:**

| **Input Signals** | |
|---|---|
| **Voltage (Amplitude):** | 10 mV-100 Vrms (0-5khz); 50 mV to 50 Vrms (1 KHz to 38 KHz) |
| **Contact:** | Dry, 2 mA @ 24 VAC Rating |
| **Frequency Range:** | 0-0.031 Hz to 0-38 KHz Full Scale |
| **Output Signals** | |
| **Type:** | 4-20 mA DC; 0-20mA DC; 0-10 mA DC; 0-1 mA DC; 1-5 VDC; 0-5 VDC; 0-10 VDC |
| **Output Loop Drive Capability:** | R(ohm)= ( V supply-5)1,000 / I out max. ma |
| **Performance** | |

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| | |
|---|---|
| **Calibrated Accuracy:** | +/- 0.1% |
| **Independent Linearity:** | +/- 0.025% |
| **Repeatability:** | +/- 0.005% max, +/- 0.002% typ. |
| **Zero TC:** | +/- 0.005% of span max/C° |
| **Span TC:** | +/- 0.005% of span max/C° |
| **Load Effect:** | +/- 0.005% zero to full load |
| **Output Ripple:** | 10mV P/P Maximum |
| **Response Time:** | 350 milliseconds (10 to 90% step response) |
| **Bandwidth:** | (-3 db): 120 Hz output response |
| **Temperature Range:** | -25° to 185 F° (-31° to 85 F°) operating; -40° to 200 F° (-40° to 200 F°) Storage |
| **Power Supply Effect:** | +/- 0.005% of span, max. |
| **Isolation:** | Input/output/case: 1000 VDC or 600 VAC |

**Note:** All Accuracies are given as a % of span.

| **Mechanical** | |
|---|---|
| **Electrical Classification:** | General Purpose |
| **Connection:** | Screw, Compression Type, Accepts up to 14 AWG |
| **Controls:** | Input SPAN and ZERO push buttons, Input Hysteresis Potentiometer, Output Span and Zero Potentiometers |
| **Mounting:** | Din Rail |
| **Weight:** | 4 oz, (115 grams) |
| **Housing:** | Rugged Krilen for protection against corrosion, moisture and dust |

## Ordering Information:

| CMCP-575 | -XX | -XXX | -XX | Speed Transmitter |
|---|---|---|---|---|
| | -01 | | | Output From Eddy Current Probe System |
| | -02 | | | Hall Effect Sensor (Proximity Switch) |
| | | -01 | | 1 Event per Shaft Revolution |
| | | -60 | | 60 Events per Revolution |
| | | -120 | | 120 Events per Revolution |
| | | -Specify | | Specify Exact Number of Events |
| | | | -01 | 0-1000 RPM |
| | | | -02 | 0-2000 RPM |
| | | | -05 | 0-5000 RPM |