

$NCT ext{-}2$ Non-Contacting Tachometer

TECHNICAL SPECIFICATION



Want a 4-20 mA analog output from a Non-contacting Tachometer?

Westec Instruments Non-Contacting Tachometer (NCT-2) is our cost effective answer to speed indication requirements in even the most demanding industrial environments.

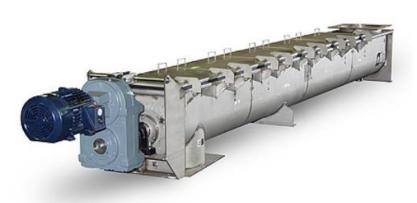
The innovative electronics can be used with any of MSP or XPP rugged, highly sensitive probes to provide the analog signals necessary for process control, indication or recording purposes. With this system you get speed indication, repeatability and accuracy better than \pm 0.5%. For increased speed of response at low pulse rates the signal is updated with each pulse.

Easy to install, the NCT-2 is easy to calibrate too, even in the field, because it provides an extremely wide calibration range. This enables the NCT-2 to monitor speeds from slow to fast on applications from drag conveyors to fans.

The standard output is 4-20 mA 'floating' with a damping adjustment provided to smooth out speed fluctuations. Full scale calibration can be from a low a eight (8) pulses per minutes to a high of 7200 PPM. Zero is set for 0 PPM equal to 4 mA. However, the design provides a minimum of 4% of full scale of calibration under dynamic conditions. A separate circuit takes the output to 4 mA if no pulses are received for 40 seconds. This assures a zero output for stopped conditions. Please note that the minimum velocity of the block must be 2 feet (1 cm/sec) per minute in order to produce a pulse acceptable to the probes.

Options include a NEMA 4 and NEMA4X enclosure, 230 VAC operation, door mounted LCD meter and up to three (3) dual alarm modules. Additional, factory pre-calibration can be provided for any PPM equal to 20 mA for nominal fee. As well, the 3 ½ Digit LCD meter can be calibrated in engineering units provided the full scale indication and PPM are given and equal to 20 mA or 100%.





TECHNICAL SPECIFICATIONS

Ambient Temp. Range: Main Electronics -40° to 140°F Outputs: 4 - 20 mA into 750 ohms

Options: Accuracy; $\pm\,0.5\%$ overall of full scale

Repeatability: $\pm\,0.1\%$ of full scale LCD Meter 3 ½ Digit 0 - 100%

Linearity: $\pm\,0.1\%$ of full scale from 4 –100% **Dual Alarm** Fail Safe Hi-Lo with DPDT 10 amps 120/240

VAC resistive contacts 25 – 1 Turn Down:

Temp Co-efficent: 0.03 % per °F (0.05% per °C)

NEMA 4 steel Span: Field calibrate from 8 - 7200 PPM **Enclosures**

(2 Form C)

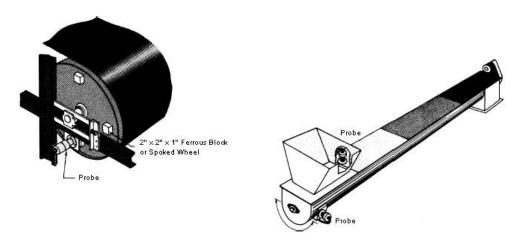
100%(20mA) Zero: 0 PPM for 0% (4 mA) NEMA 4X stainless steel Damping: 0 - 10 seconds Calibration Special calibration available

COMMON APPLICATIONS AND INDUSTRIES SERVED

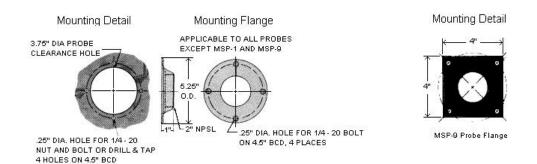
INDUSTRIES SERVED

Cement, Mining, Power, Milling, Food & Beverage, etc.

TYPICAL EQUIPMENT INSTALLATION

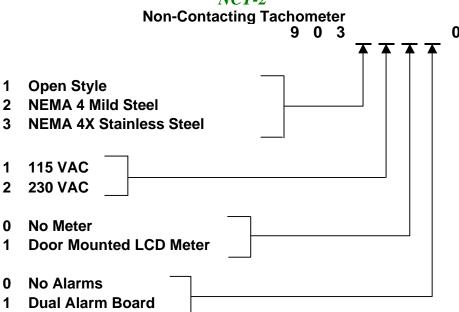


PROBE MOUNTING DETAILS



ORDERING INFORMATION

NCT-2



MOTION SENSING PROBES

| MSP-1 Mini Probe with RMA in NEMA 4 Enclosure | 92400000 + 92910000 |
|--|---------------------|
| MSP-3 High Temperature Probe with RMA in NEMA 4 Enclosure | 92100000 + 92910000 |
| MSP-9 SS High Temperature Probe with RMA in SS NEMA 4 Enclosure | 92500000 + 51015351 |
| MSP-12 Low Temperature Probe with Internal Amplifier | 92000000 |
| XPP-5 Explosion Proof Probe with Internal Amplifier & 5 feet of Cable | 92310000 |
| XPP-5 Explosion Proof Probe with Internal Amplifier & 30 feet of Cable | 92320000 |

SPARE PARTS

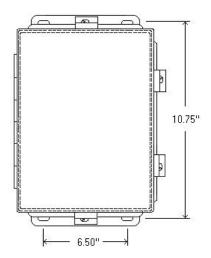
| LCD Meter Dual Alarm Card Remote Mounted Amplifier Board Fuses, Box of 5, 1/4 Amp Transformer, 30A190 (For 115 VAC) Transformer, 30A241 (For 230 VAC) Extra NCT-2 Manual | 51007611 51007421 51012461 22550070 26350190 26350241 IM-3 |
|---|--|
| MSP-1 Mini Probe MSP-3 High Temperature Probe MSP-9 SS High Temperature Probe MSP-12 Low Temperature Probe XPP-5 Explosion Proof Probe (5') XPP-5 Explosion Proof Probe (30') | 92400000 92100000 92500000 92000000 92310000 92320000 |

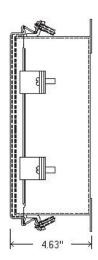
| Your Representative: | | | |
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DRAWINGS





INTERCONNECTION

