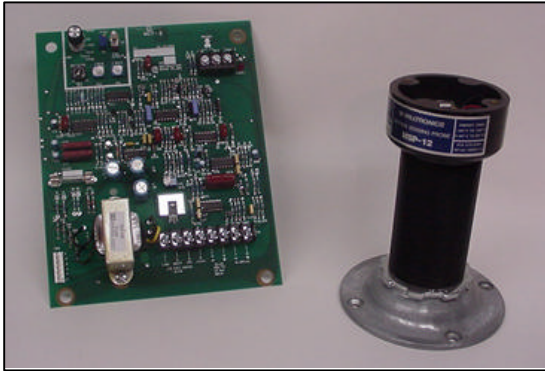




## **NCT-2** Non-Contacting Tachometer

## TECHNICAL SPECIFICATION



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

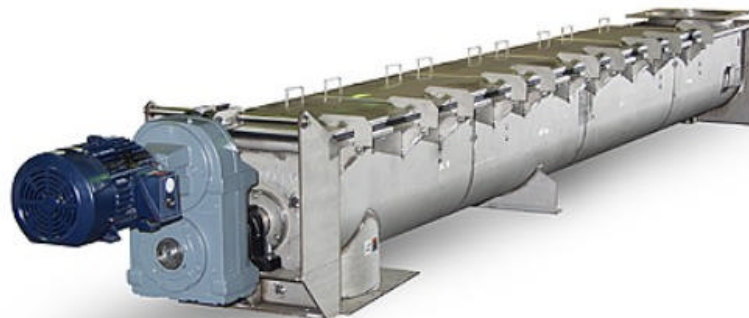
Westec Instruments Non-Contacting Tachometer (NCT-2) is our cost effective answer to speed indication requirements in even the most demanding industrial environments.

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

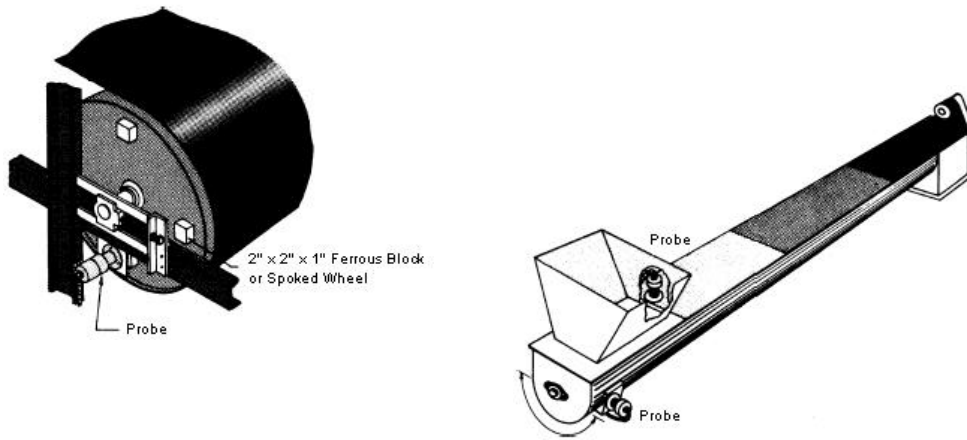
Ambient Temp. Range:	Main Electronics -40° to 140°F	Outputs:	4 – 20 mA into 750 ohms
Accuracy:	± 0.5% overall of full scale	Options:	
Repeatability:	± 0.1% of full scale	LCD Meter	3 ½ Digit 0 – 100%
Linearity:	± 0.1% of full scale from 4 – 100%	Dual Alarm	Fail Safe Hi-Lo with DPDT 10 amps 120/240 VAC resistive contacts (2 Form C)
Turn Down:	25 – 1		
Temp Co-efficient:	0.03 % per °F (0.05% per °C)		
Span:	Field calibrate from 8 - 7200 PPM 100%(20mA)	Enclosures	NEMA 4 steel or NEMA 4X stainless steel
Zero:	0 PPM for 0% (4 mA)	Calibration	Special calibration available
Damping:	0 – 10 seconds		

## COMMON APPLICATIONS AND INDUSTRIES SERVED

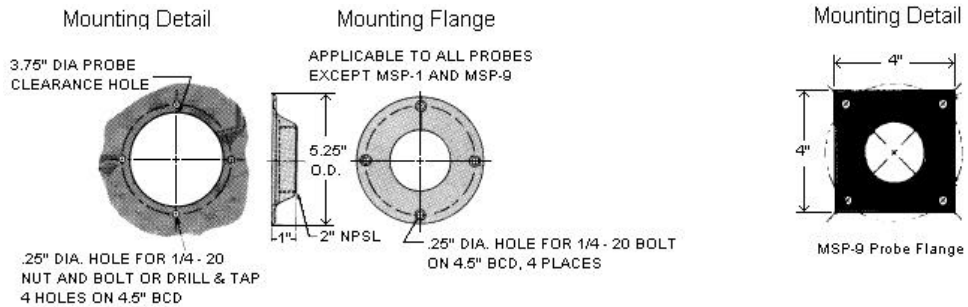
### INDUSTRIES SERVED

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

## TYPICAL EQUIPMENT INSTALLATION



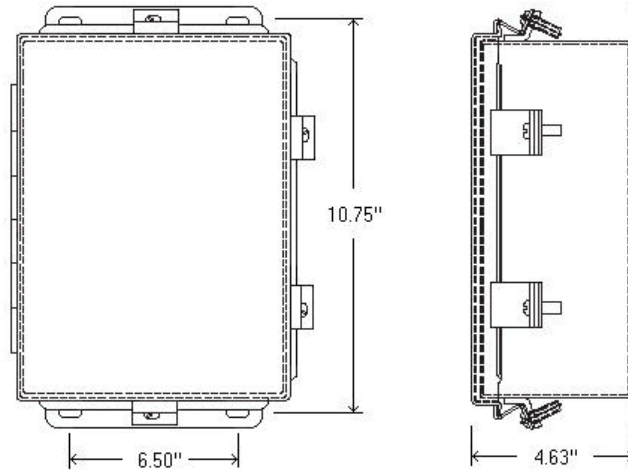
## PROBE MOUNTING DETAILS



MSP-1 PROBES REQUIRE A 1.125" HOLE FOR MOUNTING



## DRAWINGS



## INTERCONNECTION

