

# Monad Electronics

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**Monad Electronics, India**

# Introduction

## **Proud Winner of National Award for year 2009-2010 in R&D**

Monad Electronics is An ISO 9001:2000 certified company, which has over the last 13 years been involved in the business of Exporting, designing & manufacturing, Electronics Industrial products, Testing equipments , sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

We are specialized in providing consultancy for itemized engineering Test ring and Projects. We are also interested in taking - up the project development, recommending and mfg. sensing and related components, service providing in installation & commissioning.

We are in this field from last 13 years and also Exporting our products to USA, Germany, Belgium, Turkey, Australia, UAE and African countries. We have good track record of import substitute high end equipment development and supplying to leading industries and government institutes.



## Monad Melt Pressure Sensor

Monad melt pressure transducers and transmitters (MN-P5) are developed from strain gauge technology and manufactured in mass production.

The MN-P5 are constructed with a full bridge strain gauge circuit and 100% made from stainless steel material (standard version).

In addition, the pressure diaphragm features a surface treatment with special alloy coating for all the MN-P5 models. Both the rigid stem and flexible extension provide thermal isolation to sensors electronic circuitry, which enable MN-P5 suitable for melt pressure and melt temperature measurements.

The output of MN-P5 is either strain gauge signal (for instance, 2.0 mV/V multiplied by bridge excitation voltage), or amplified signals (such as 0~10 Vdc or 4~20 mA). By short-circuit, a shunt resistor will be connected which provides MN-P5 with a 80% FSO signal for calibration without need of external calibration pressure.



## Monad Melt Pressure Sensor

### Features:

- \* Flexible extension providing further thermal isolation to electronics
- \* Amplified out put signal available in 4~20 mA or 0~5, 0~10 Vdc
- \* Wide measuring range of 0/10 bar to 0/2000 bar
- \* Availability for zero and span adjustment
- \* Internal shunt calibration signal of 80%FS
- \* 100% stainless steel construction with special alloy coating on pressure diaphragm



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## Specifications :

Measuring range	Bar	0/10, 0/20, 0/35, 0/50, 0/70, 0/100, 0/200, 0/350, 0/500, 0/700, 0/1000, 0/1400, 0/2000
Overload pressure	% FS	150 (2100 Bar max.)
Signal output at FS	mv/v	2.0
Amplified output signal		0-5 vdc, 0-10 vdc, 4-20 ma
Supply voltage		10 (8-12 acceptable) for non amplified models of 2.0 mv/v strain gauge output amplified 24 (12-36 acceptable) for amplified output signal
Combined error	% FSO	0.3, 0.5 (standard), 1.0
Zero adjustment	% FSO	± 10
Span adjustment	% FSO	± 6
Repeatability	% FSO	± 0.2
Output resistance	$\Omega$	350 ± 10%
Insulation resistance	M $\Omega$	≥ 1000 @ 100 vdc
Max. Temp. @ wetted parts	°C	400
Temperature coefficient of zero	% FSO/10°C	0.5
Temperature coefficient of span	% FSO/10°C	0.5
Compensated temp. Range	°C	0-80
Process connection		external thread 1/2"-20 UNF-2a (standard), m14x1.5, m18x1.5
Electrical connection	connector	6-pin (standard) male tighten connector, 8-pin male screw in connector
Long term stability	%FSO/year	< 0.15
Max. Mounting torque	N.m.	40



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