

# PRECISION DATA ACQUISITION SYSTEMS & SIGNAL CONDITIONERS

## Introduction:

MPDAS range of scientific/industrial signal conditioner( AC/DC) conditioner/DAS are available in 8 different regular models apart from tailor made solutions virtually covering all industrial and research applications meeting all electrical, thermal, mechanical, and environmental specifications. These conditioners are first choice for online monitoring of piezoresistive based pressure/force/level/acceleration/torque/flow and many other inferential variable. These conditioners also find application in heavy electrical engineering industries, structure, automobile, vibration, defense, and electrical/mechanical m/c testing instrument, industrial electronics, railway, and avionics and many research and development activities. These conditioners are compatible to any standard or hall/shunt sensor and display with very high degree of accuracy/repeatability/reliability. These conditioners are available in different constructional material like ceramic-coated ms/poly carbonate.

## Benefits:

- Simple installation and operational compatibility.
- Consistent performance over large temperature range (70°C)
- Scaled directly in desired protocol with repeatable accuracy.
- Auto zero offset without drift.
- All standards din sizes and custom sizes.
- Bridge configuration selector



MPDAS-00099.9



MPDAS- 00999.9



MPDAS-99999.9-

## SCIENTIFIC/INDUSTRIAL SIGNAL CONDITIONERS

Voltage < 99999.9 nano volts

Model	Volts Micro volts	Lease count Micro volts	Linearization	Excitation AC/DC	Display	Interface option
MPDAS-00099.9-	00099.9	1/10 of lbs.	Optional	Optional	LCD/LED	RS-232
MPDAS-00999.9-	00999.9	1/10 of lbs.	optional	Optional	LCD/LED	RS-232
MPDAS-09999.9-	09999.9	1/10 of lbs.	Optional	Optional	LCD/LED	RS-232
MPDAS-99999.9-	99999.9	1/10 of lbs.	Optional	Optional	LCD/LED	RS-232

## General electrical/mechanical specifications:

**General electrical/mechanical specifications:** Operating voltage: 220 volt A.C. (50-20,000 Hz)/ 12 volts D.C.

Measurement range (full scale): as above in different model.

Input capacitance: 10 nF

Response time: 1000 sample/sec

nano ampere meter signal: 100 micro ampere AC/DC (optional)

Burden: less than 100 micro volt/full scale current

Accuracy: 0.5/1.0/2.0 % reading

Repeatability: 100 of reading

Resolution: 1/10 of least significant bit

Linearity adjustment: upto 100 nano volt

Input imedence: 100 mega ohm (<1000 nano volt), 1000 mega ohm (<1000 mili volt)

Filtering: low pass

Offset: variable upto 10,000 nano ampere (manual/auto)

CMMR: >80 db at 50-60 Hz

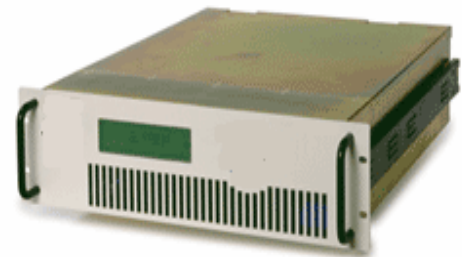
Isolation: > 100 giga ohm

CHANNEL: 4/8/20/40 Channels

Connector: BNC-9 pinx2 and BNC-25 pinx2

Size: 5X8X8 inches/rack mounted or portable

Interface: RS-232



16 channel data acquisition system

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