






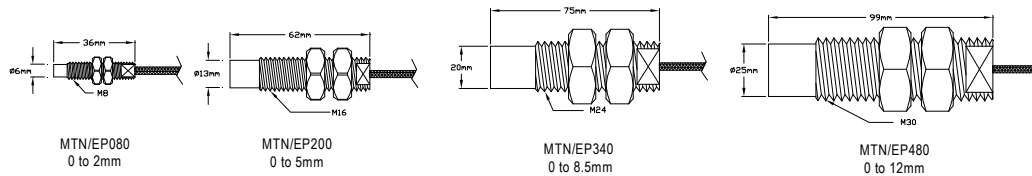
EDDY CURRENT PROBES AND DRIVER

Applications

-  Pumps
-  Plain bearings
-  Turbines
-  DC gap on machine tools
-  Gauges

Eddy current probes provide precise measurement of small static or varying gaps between the probe and a magnetic material, making them suitable for gauging applications and vibration measurements.

Probes

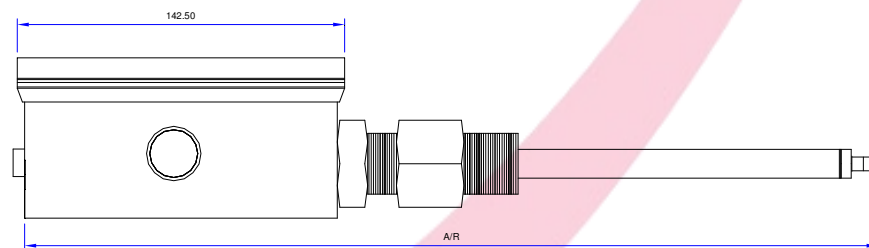


Common Features

<i>Non linearity</i>	1%
<i>Frequency range</i>	DC – 10KHz
<i>Probe operating temperature</i>	-30°C to +180°C
<i>Probe Temperature Sensitivity</i>	<5% at 150°C
<i>Output impedance</i>	<50Ω
<i>Maximum non-condensing humidity</i>	95%
<i>Tip material</i>	PEEK, encapsulated with potting
<i>Case material</i>	Stainless steel

Cable








<i>Construction</i>	Stainless steel overbraided, PTFE insulated
<i>Standard cabling</i>	1m integral with probe, terminated with SMC connector (additional length optional, maximum 9m)
<i>Extension cable</i>	1m to 8m, as required, terminated with SMC connectors, maximum length 9m including probe cable. Recommended to improve installation and maintenance with long cable runs



MTN/EPHD080
Heavy Duty Housing for DSPD-40 Driver and adjustable EP080 Probe

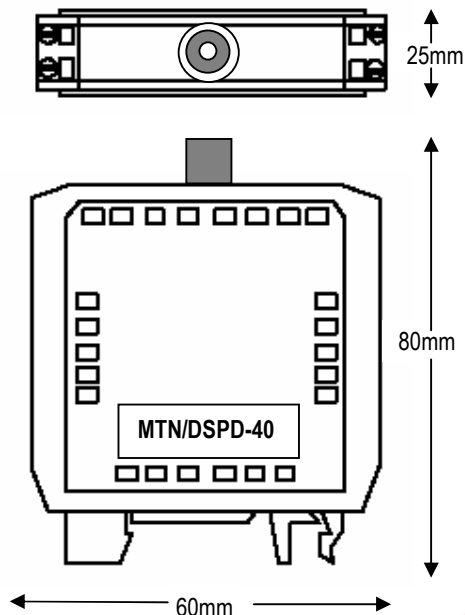
DSPD-40 Driver

A versatile digital processor operating with any of the eddy current probes overleaf and offering

-  Dual calibration tables for standard or specific target materials
-  Probes of the same type and cable length can be exchanged without recalibration
-  Both analogue voltage and digital outputs
-  Trimode selectable input power requirement
-  High frequency response
-  Selectable filtering >10kHz
-  Serial port for driver set-up

Its digital design allows the user to select ranges, outputs, filtering and calibration, as required through the serial port.

<i>Trimode power supply</i>	Selectable, +V, \pm V or -V at 20 to 30V and \pm 10 to 15V
<i>Analogue output</i>	0 to 18V, -9V to +9V or -18V to 0V for maximum gap Scalable to lower values e.g. 0-10V
<i>DSP sampling frequency</i>	40kHz for high frequency response
<i>Target Material</i>	Four selectable calibration tables supplied, carbon steel and aluminium for standard (1 metre cable) and extended (9 metres cable) Bespoke calibrations on request against samples of specific materials
<i>Filtering</i>	Digital, selectable
<i>Connector</i>	SMC socket for probe, screw terminals for power supply and output
<i>Probes</i>	Uses any probe, EP080, 200, 340 or 480. Probes of the same type and length exchangeable without recalibration. Set up for 1m and 1m plus 8m extension cables.
<i>Temperature</i>	-10°C to +50°C
<i>Communications</i>	Two-wire RS485 multidrop at 9600 baud, 1 stop, no parity Allows data collection and parameter selection via standard terminal program such as Hyperterminal
<i>Dimensions</i>	80 x 60 x 25mm, 160 grams
<i>Standard Housing</i>	DIN rail-mounted plastic enclosure
<i>Optional Housing</i>	Waterproof (IP67), flameproof
<i>Options</i>	4-20mA output module (3-wire) in same sized DIN rail-mounted enclosure



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