

DP CONTROLS SDN BHD (Co. No.: 274734-P)

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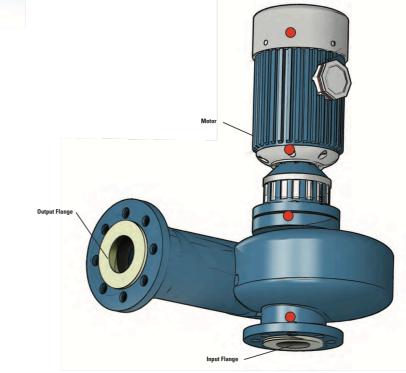
Cert No. AJAMY/1058

Vibration Monitoring for

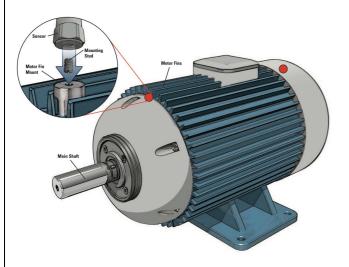
Pumps & Blowers & Motors

There are dozens of different types of blowers or pumps and a seemingly endless list of applications but industrial accelerometers can often help the maintenance professional to diagnose sometimes tricky issues with blowers or pump operation. Using vibration monitoring in your predictive maintenance program can help identify blowers or pump problems such as

- Cavitation.
- Recirculation.
- Resonance.
- Unbalance.
- Misalignment.
- Bearing defect.
- Lubrication issue.



Suggested Sensor Placement



Monitoring vibration on induction motors is at the core of any predictive maintenance program. Typical applications demand vibration measurements in the horizontal, vertical and axial direction on both the inboard and outboard motor bearings. Aside from typical mechanical issues, such as misaligned couplings and unbalance, the vibration analyst can also detect electrical issues that cause mechanical vibrations. Some common electrical faults include air gap variation, broken rotor bars and bearing fluting.

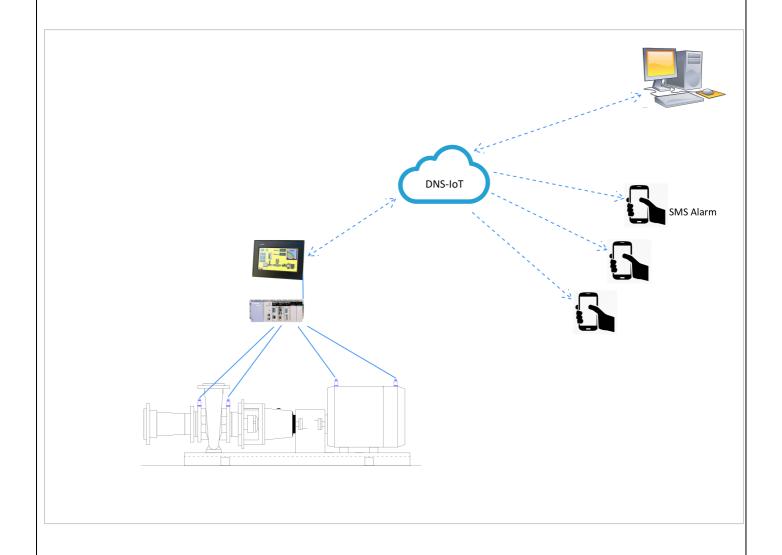


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DP/1185H-2P-20

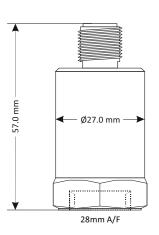
4-20mA output velocity for PLC interface

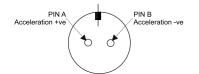
General purpose, top-entry velocity transducer with DC output. Made from robust stainless steel throughout for continuous vibration monitoring in harsh environments. Sealed to IP67 with industry standard two-wire 4-20mA output proportional to sensor range that can connect directly to PLC, DCS and other industrial controllers. Includes 2-pin MS connector and is available with a wide range of mountings.

DP/1185H-2P-20



Dimensions





Applications

- Centrifuges
- Building services
- Pumps and fans

Technical

Output current	4-20mA DC proportional to rms velocity (mm/s)
Supply voltage	12-32V DC (4-20mA)
Frequency response	2Hz to 1kHz ±10%
Mounted base resonance	5kHz (nominal)
Isolation	Base isolated
Dynamic range	50g peak
Transverse sensitivity	Less than 5%
Operating temperature	-25 to 120°C
Temperature sensitivity	0.08%/°C
Case material	Stainless steel
Mating connector	MTN/MH002
Mounting torque	8Nm
Weight	150g (nominal)
Sealing	IP67

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DP/1185H-2P-20

4-20mA output velocity for PLC interface

Studs and grub screws





Part #	From	То
MS036	¼"-28 UNF Male	M6 Male
MS039	¼"-28 UNF Male	10-32 UNF Male
MS067	¼"-28 UNF Male	M8 Male
MS068	¼"-28 UNF Male	¼"-28 UNF Male
MS124	¼"-28 UNF Male	M10 Male
MS132	¼"-28 UNF Male	M12 Male
	1	1

Quick fit adapters



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Part #	From	То
MS001	Q/F Male	Glue base
MS002	Q/F Male	M8 Male
MS003	Q/F Male	M10 Male
MS004	Q/F Male	¼"-28 UNF Male
MS006	Q/F Male	M6 Male

Mounting adapters



Part #	From	То
MS005	Q/F Male	¼"-28 UNF Female
MS007	Q/F Male	10-32 UNF Female
MS008	Q/F Male	M8 Female
MS011	¼"-28 UNF Male	Q/F Female
MS013	¼"-28 UNF Male	Glue base
MS033	¼"-28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male

10-32 UNF Male

Q/F Female

M10 Female

1/4"-28 UNF Male

1/4"-28 UNF Male

Q/F Male

Isolation

MS061

MS079

MS106

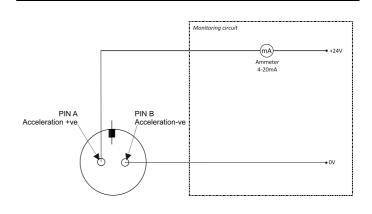
Part #	From	То
MS034	¼"-28 UNF Male	¼"-28 UNF Female
MS093	Q/F Male	M8 Male

Options

- Filters
- Mounting threads
- Mating connectors and cable assemblies
- High temperatures
- Other ranges (see below)

	1	xx= Optional
5		velocity
Part #	Mounting	(mm/s rms)
DP/1185H-2P-xx	¼"UNF Female	0-10
DF/1105H-2F-XX	74 ON Temale	0-20
-		0-25
DP/1185HQ-2P-xx	Q/F Female	0-50
		0-100

System connection



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DP/2287H-2P-2

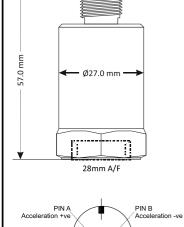
4-20mA output accelerometer for PLC interface

General purpose, top-entry accelerometer with DC output proportional to acceleration. Made from robust stainless steel throughout for continuous vibration monitoring in harsh environments. Internal electronics are enclosed in a Faraday cage and isolated to minimise noise. Sealed to IP67 with industry standard two wire 4-20mA output proportional to sensor range that can connect directly to PLC, DCS and other industrial controllers. Includes 2-pin MS connector and is available with a wide range of mountings.

DP/2287H-2P-2



Dimensions



Applications

- Centrifuges
- Building services
- Pumps and fans

Technical

Output current	4-20mA DC proportional to rms acceleration (g rms)
Supply voltage	12-32V DC (4-20mA)
Frequency response	2Hz to 1kHz ±10%
Mounted base resonance	5kHz (nominal)
Isolation	Electronics in Faraday cage, isolated from body
Dynamic range	50g peak
Transverse sensitivity	Less than 5%
Operating temperature	-25 to 120°C
Temperature sensitivity	0.08%/°C
Case material	Stainless steel
Mating connector	MTN/MH002
Mounting torque	8Nm
Weight	150g (nominal)
Sealing	IP67

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DP/2287H-2P-2 4-20mA output accelerometer for PLC interface

Studs and grub screws



Mounting adapters



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Part #	From	То
MS036	¼"-28 UNF Male	M6 Male
MS039	¼"-28 UNF Male	10-32 UNF Male
MS067	¼"-28 UNF Male	M8 Male
MS068	¼"-28 UNF Male	1⁄4"-28 UNF Male
MS124	¼"-28 UNF Male	M10 Male
MS132	¼"-28 UNF Male	M12 Male
	1	1

Part #	From	То
MS005	Q/F Male	1/4"-28 UNF Female
MS007	Q/F Male	10-32 UNF Female
MS008	Q/F Male	M8 Female
MS011	¼"-28 UNF Male	Q/F Female
MS013	¼"-28 UNF Male	Glue base
MS033	¼"-28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male
MS061	¼"-28 UNF Male	10-32 UNF Male
MS079	¼"-28 UNF Male	Q/F Female
MS106	Q/F Male	M10 Female

Quick fit adapters





Part #	From	То
MS001	Q/F Male	Glue base
MS002	Q/F Male	M8 Male
MS003	Q/F Male	M10 Male
MS004	Q/F Male	¼"-28 UNF Male
MS006	Q/F Male	M6 Male

Isolation

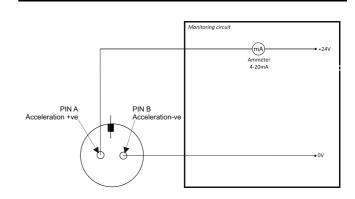
Part #	From	То
MS034	1/4"-28 UNF Male	¼"-28 UNF Female
MS093	Q/F Male	M8 Male

Options

- Filters
- Mounting threads
- Mating connectors and cable assemblies
- High temperatures
- Other ranges (see below)

Part #	Mounting	xx = Optional acceleration (g rms)
DP/2287H-2P-xx	¼"UNF Female	0-1 0-2 0-5 0-10 0-20
DP/2287HQ-2P-xx	Q/F Female	

System connection



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