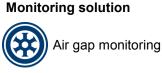




#### **FEATURES**

- Air gap monitoring between 35 to 65 (1.38" to 2.56")
- Detachable sensor via ø5mm coaxial connector for routing through ventilation holes
- DSP based linearization allowing greater accuracy and stability
- Active temperature compensation
- Resistant to strong magnetic field



# Typical applications

Hydrogenerators Gearless millsdrives



Non-contact capacitive Air Gap Transmitter (AGT) for the measurement of the distance between its underlying surface and a metallic target. Each transmitter consists of a Sensor (AGS), an Air Gap Adapter (AGA) and a Conditioner (AGC).

#### Conditioner

The conditioner provides three signal outputs :

- MinGap<sup>1</sup> voltage (V)
- Pole Profile voltage (V)
- Pole Profile or MinGap<sup>1</sup> current (mA)

All outputs are galvanically isolated and the current output is factory set on Pole Profile. The digital technology combined with active temperature compensation allow linearization adjusted with great accuracy and resolution, with stable and repetitive behaviours. Industrial metal housing enables installation in harsh environments.

#### Sensor and Adapter

Designed for long life cycles, harsh environments and strong magnetic fields. The sensor shape is suitable for its installation on the stator wall of generators and motors. The sensor is connected to the air gap adapter via a flexible cable and a connector allowing routing through ventilation holes. This cable is protected on its entire length by flexible polyamide tubes. The air gap adapter is connected to the conditioner via a flexible cable and a 4 poles connector. This cable is protected on its entire length by a flexible cable and a 4 poles connector.

<sup>1</sup>See user manual for detailed description



# **GLOBAL SPECIFICATIONS**

Fluid compatibility

Sensor surface

PHYSICAL [mm]

Conditioner case protection class

Adapter module dimensions

Conditioner module dimensions

Outputo	Voltage	Current Bolo profile	Voltago
Outputs	Pole Profile	Current - Pole profile or MinGap	Voltage MinGap
Value	2 to 10V	4 to 20mA	2 to 10V
Sensitivity to distance	0.266V/mm	0.533mA/mm	0.266V/mm
Loop resistance (current output)	n/a	Max. 500Ω	n/a
Output resistance (voltage outputs)	100Ω ±1%	n/a	100Ω ±1%
Linearity	< 5% of full scale		
Temperature coefficient	< 500ppm/°C at 50mm		
Typical frequency response (-3dB)	DC to 1kHz		
Output noise	< 50mVrms		
Interchangeability tolerance	< 5% of full scale		
Linear measuring range	35 to 65mm (1.38 to 2.56 in.)		
Power			
Voltage	+24VDC nominal ±10% / Warm up time 10 minutes		
Current enneumention	125mA typical		
Current consumption	120mil (gpiour		
/IRONMENTAL			
· · · · ·	Sensor	Conditioner	Adapter
IRONMENTAL		Conditioner -15° to +85°C	Adapter -15° to +85°C
/IRONMENTAL Temperature range - part :	Sensor		•
/IRONMENTAL Temperature range - part : Operation	Sensor -15° to +125°C	-15° to +85°C -20° to +100°C	-15° to +85°C
/IRONMENTAL Temperature range - part : Operation Non-destructive	<b>Sensor</b> -15° to +125°C -40° to +150°C	-15° to +85°C -20° to +100°C	-15° to +85°C
IRONMENTAL Temperature range - part : Operation Non-destructive Humidity (non-condensing)	Sensor -15° to +125°C -40° to +150°C resistant to 95% RH IEC 68 2.27 standar	-15° to +85°C -20° to +100°C	-15° to +85°C

material

IP66, EN60529

120 L x ø25

263 x 80 x 3.8 LxWxH

170 x 63 x 40 LxWxH

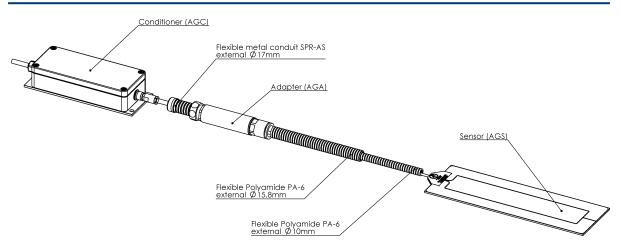
withstands contact with water, oil, solvents, acids without degradation of



### **ORDERING INFORMATION**

Part type	Sensor
Ordering code	04.550.100 MX
Description	Triaxial cable of approx. 2m terminated by a ø5mm coaxial connector to plug to adapter module. Delivered with polyamide flexible conduit.
Part type	Conditioner
Ordering code	04.550.200 MX
Description	Aluminium case AlSi12 with 3 mm mounting plate, stuffing gland and 4 poles input connector socket. Silver painted, colour RAL 7001.
Part type	Adapter
Ordering code	04.550.300 MX
Description	Sensor input via coaxial connector and output via shielded three core cable of 8 m termi nated with 4 pole connector ø11.5mm. Delivered with 8 meters metal flexible conduit.

### TRANSDUCER OVERVIEW



Conditioner must be grounded! See user manual for installation details

Due to the continual development of our products we reserve the right to modify the specifications without notification

MC-monitoring Quality certifications



LOCAL REPRESENTATIVE

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