CM-ENC Sensor

Eddy current sensor for use on metal bars, cables with or without insulation

Technical specifications :

- Very high penetration probe
- **Low & high frequency probe range**
- **0.5 kHz to 5 MHz**
- BNC I/O connectors
- Compatible with all brands of CF devices
- Probe shielding adapted to NDT
- High sensitivity and resolution
- Polymer or aluminum probe body

Main applications :

- **Control of cables, bars, tubes...**
- **Detection of surface and deep defects, up to 10mm (cracks, breaks, inclusions)**
- **Can be used on cables with several mm thick insulation**
- Detection of material variations (material sorting)
- Electrical conductivity, corrosion detection
- Surface treatment, thermal treatment, microstructure variation
- Use on ferromagnetic & non-magnetic materials
- Use on high temperature parts (~ 500°)

Cable control

Electrical conductivity and material variation control

Control of breaks, cracks...

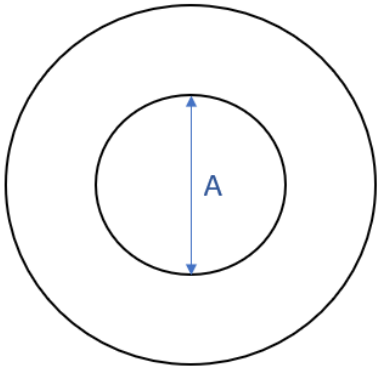
Control of tubes, bars

CMPhy - 26 rue Paul Sabatier - 71530 - CRISSEY - Tél : 03 85 47 47 20 / Fax : 03 85 47 47 19
Email : contact@cmphy.fr - www.cmphy.fr SIRET : 828 227 439 00019

REFERENCE	FREQUENCY OF USE	MEASURING MODE	DIMENSIONS* (mm) A
ENC LF 0.5-10	0.5 - 10 kHz	Transmit/Receive Absolute & Differential	1 to 300mm
ENC MF 10-100	10 – 100 kHz	Transmit/Receive Absolute & Differential	1 to 300mm
ENC HF 100-5000	100 kHz – 5 MHz	Transmit/Receive Absolute & Differential	1 to 300mm

***Possibility of making custom probes**

****possibility of designing housings in different materials (plastics...)**



F = 100-500 KHz	EMISSION REEL (small format to large format)	REEL RECPETION (small format to large format)
Z (Ω)	35 to 1000	38 to 1500
Phase°	78 to 300	78.5 to 600
L (mH)	12 to 3000	13 to 3500
R (ohmic in Ω)	6.5 to 200	6.5 to 400

CMPhy - 26 rue Paul Sabatier - 71530 - CRISSEY - Tél : 03 85 47 47 20 / Fax : 03 85 47 47 19
Email : contact@cmphy.fr - www.cmphy.fr SIRET : 828 227 439 00019