

> Overall level sensor

Output 4-20mA
Model DY4-20D-XXX

> Applications

The DY4-20D family of products allows simple and economical monitoring of equipment, with the data transferred to a supervision PLC. There are two output variants available:

- Overall Velocity Level for the low-frequency phenomena (imbalance, trimming, etc.)
- Overall Acceleration Level for the high-frequency phenomena (bearings, gearings, etc.)

An output for the raw accelerometric signal is available as an option.

> Main characteristics

- AOL rms. or VOL rms output.
- Connection on 4-20mA loop current
- Connected directly onto PLCs and centralised ducts
- Optional raw accelerometric signal output

Connector: M12, glass sealing

Sensor fixing: Captive hexagon socket screws M6 x 1



> Specifications

Dynamic:

Full scale and range

DY4-20DV10speed rms 10mm/s (3-1000Hz ±10%)
DY4-20DV20speed rms 20mm/s (3-1000Hz ±10%)
DY4-20DA10	... acceleration rms 10g (3-10 000Hz ±10%)
DY4-20DA50	... acceleration rms 50g (3-10 000Hz ±10%)

Output

Nul vibration4 mA
Maximum vibration20mA+/-2%

Rise resonance frequency 25 kHz rated

Cross-sensitivity..... < 5 %

Linearity ± 1 % max.

Start-up time

Loop 4-20mA < 15 sec.

Option sortie accélération dynamique brute

DY4-20DV10	} Sensitivity = 100 mV/g rms ± 30%
DY4-20DV20	
DY4-20DA10	} Sensitivity = 10 mV/g rms ± 30%
DY4-20DA50	

Electrical:

Grounding Insulated from the erection surface

Insulation (housing and Faraday cage) 100MΩ min

Supply voltage 10 to 30 VDC

Protection

Overvoltage Yes

Polarity reversal..... Yes

Optional raw dynamic signal output

DC Bias 2.6V

Environment :

Temperature

In continuous operation

Max. Loop current 10 mA -55 to 120°C

Max. loop current 20 mA -55 to 90°C

Humidité / Boîtier

Insensitive, hermetic glass sealing

Max. acceleration max.

Shock 2500g peak

Continuous vibration..... 250g peak

Mean Time Between Failures (MTBF)..... 7 years

Electrostatic discharge protection..... > 40 V

Physical:

Ground 155 gr rated

Connector M12 glass sealing

Material..... AISI 316L, DIN 1.4435 (Stainless steel)

Tightening torque (M6)..... 2.4 N.m

DYNÆ

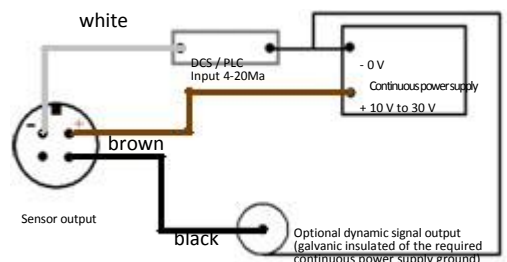
- > Vibratory analysis
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- > Instrumentation and sensors
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Sous réserve de modification des caractéristiques techniques.