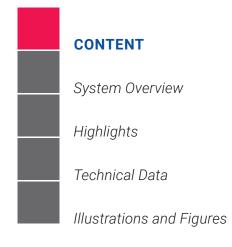
DX Series



Data Sheet DX-020 5V





System Overview

The analogue to digital converter series of type "DX" are specially designed for a large dynamic range and high stability, which makes them suitable for almost all applications.

These ADC's have internal digital calibrations resulting in highly significant signal output. Due to this digital signal processing, all signals have the identical transfer function which allows for high precise post-processing of the data.



- Low power consumption
- Very low noise, large dynamic range and high linearity
- Digital temperature compensation minimizes drifts
- Sensor output digitally error-corrected with respect to scaling and offset
- Small size and lightweight
- Single coaxial cable for power and data introduces minimal magnetic signature

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Technical Data DX-020 5V

No. of channels	3
Diameter	60 mm
Length	165 mm
Weigth	0.5 kg
Power supply	16 VDC, 0.9 W
Interface connector type	LEMO coaxial series 0S, FFA.0S.250
Interface	- PCMCIA type II - Ethernet (Power over Ethernet)
Degree of protection	Standard: IP65, higher protection on request
Input range	± 4.6 V
Noise @ 1 Hz	< 250 nV/rtHz
Sample rate	0.1 Hz - 10 kHz
Analogue filter	Anti aliasing
Digital filter	0 dB @ DC - fs/3, < -120 dB @ ≤ fs/2
Resolution	4 nV
Crosstalk	< 126 dB
Max. bandwidth	4 kHz
Offset error (25 °C)	< 25 µT
Offset drift (25 °C)	< 2 µV/K
Scale error (25 °C)	< 5 ppm FS
Scale drift (25 °C)	< 1 ppm/K

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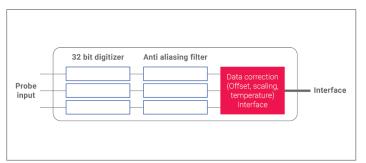
Illustrations and Figures



DX-020 5V with coaxial cable (included)



DX-020 5V sideview

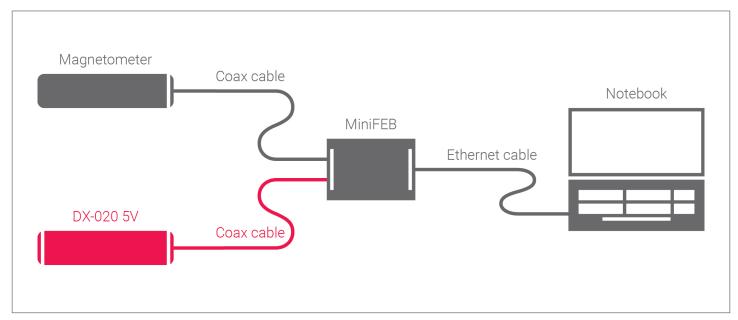


Functional overview



DX-020 5V coaxial interface

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Component scheme