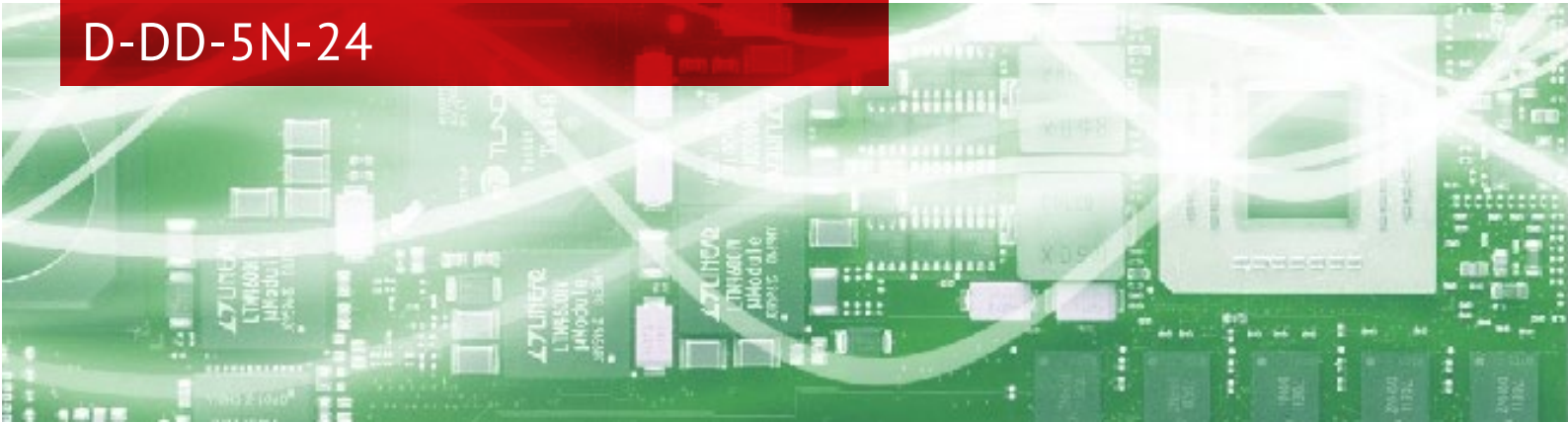




Digital Displacement Decoder D-DD-5N-24



Ultrafast FPGA-based Digital Signal Processing

Optomet Vibrometers feature an end-to-end FPGA-based digital signal processing allowing a fully digital read-out of the measurement data. Digital signal processing avoids any drawbacks of analog demodulation which may result from component aging, temperature dependencies, noise and non-linearities. Significantly higher sensitivity, better resolution, and stability are the benefits of OptoMET's end-to-end digital signal processing. Extremely low noise levels produce precise results even from poorly reflecting measurement objects.

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HIGHLIGHTS:

- Digital decoder
- 19 displacement measuring ranges
- Frequency range: DC bis 24 MHz
- Max. velocity up to 30 m/s
- Resolution down to 50 femtometers

High-End Master Displacement Decoder 24 MHz

All vibrometers series feature by default a velocity decoder and can be supplemented with a suitable displacement and/or acceleration decoder.

The D-DD-5N-24 expands the frequency bandwidth up to 24 MHz, is especially used for ultrasonic applications.

Required velocity decoder: D-VD-5N-24

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