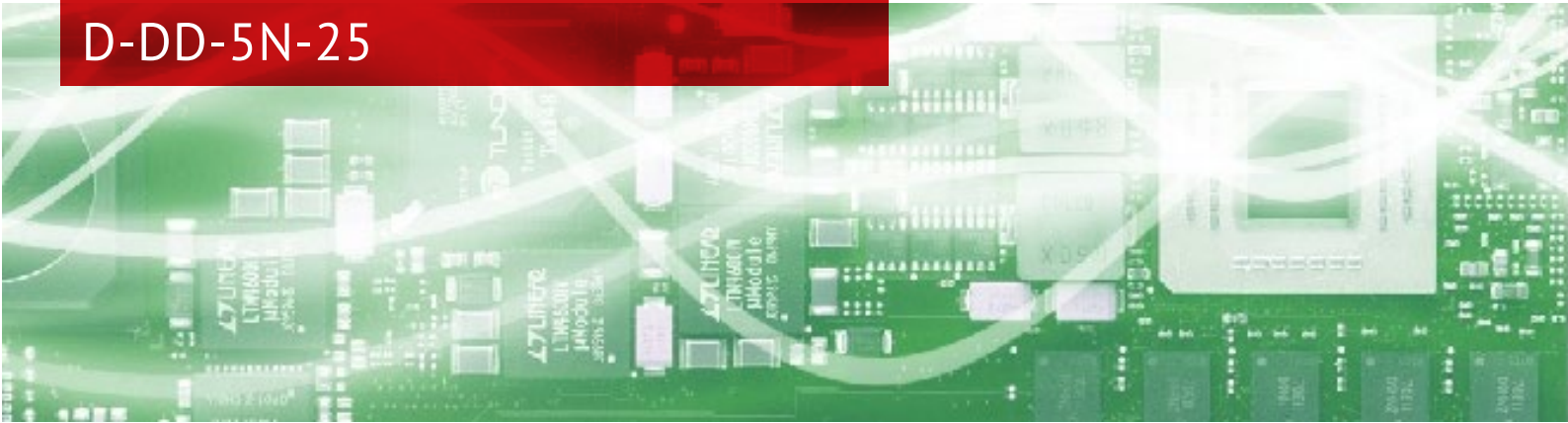




## Digital Displacement Decoder D-DD-5N-25



### 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.

#### HIGHLIGHTS:

- Digital decoder
- 19 displacement measuring ranges
- Frequency range: DC bis 25 MHz
- Max. velocity up to 25 m/s
- Resolution down to 50 femtometers



### High-End Master Displacement Decoder 25 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-25 expands the frequency bandwidth up to 25 MHz, is especially used for ultrasonic applications.

Required velocity decoder: D-VD-5N-25

