

## **VIBXPERT®** EX

High performance intrinsically safe vibration analyzer



## **VIBXPERT® EX**

## The new two channel FFT data collector and signal analyzer for hazardous areas

VIBXPERT® EX is a high performance, intrinsically save, fully featured data collector, vibration analyzer and field balancer for easy condition monitoring and troubleshooting of rotating equipment in explosive environments such as petrochemical plants, refineries, offshore oil rigs, etc.

VIBXPERT® EX collects field data including vibration information, bearing condition, inspection and process data and seamlessly integrates with the PRUFTECHNIK universal OMNITREND® Center software platform.

- ▶ 102,400 lines of resolution
- Simple joystick operation
- Acceptance measurements
- ▶ Runup / coastdown analysis
- ▶ Time waveform analysis
- ▶ Balancing, 1 plane or 2 planes
- Intrinsic safety II 2 G Ex ib IIC T4

| /IBCODE® – type VIB 8.66                                          | 60-XVS                                                    |                         |
|-------------------------------------------------------------------|-----------------------------------------------------------|-------------------------|
| Hand-held transducer<br>with automatic location<br>identification | reliable identification of the coded measurement location |                         |
|                                                                   | reproducible measurement conditions                       |                         |
|                                                                   | intrinsic safety: II 2 G Ex ib IIC T4                     |                         |
| Industrial accelerometer                                          | type VIB 6.142 DEX                                        |                         |
| Mobile industrial                                                 | machine vibration & roller bearing condition              |                         |
| accelerometer for<br>standard machines                            | (shock pulse)                                             |                         |
|                                                                   | medium and high rotational speed (> 600 rpm)              |                         |
|                                                                   | magnetic, bonded or threaded mounting                     |                         |
|                                                                   | Marking, gas explosion protection                         |                         |
|                                                                   | Dust explosion                                            |                         |
| Industrial accelerometer                                          | type VIB 6.147 DEX                                        |                         |
| Mobile industrial accelerometer for 'low-speed' machines          | machine vibration                                         |                         |
|                                                                   | low rotational speed (> 120 rpm)                          |                         |
|                                                                   | magnetic, bonded or threaded mounting                     |                         |
|                                                                   | Marking, gas explosion protection                         |                         |
|                                                                   | Dust explosion                                            | € II 2 D FxibD 21 T187° |

| Analog, 2x             | Voltage (AC/DC, ±30 V max.)                                        |  |
|------------------------|--------------------------------------------------------------------|--|
|                        | Voltage (AC/DC, ±30 V IIIax.)                                      |  |
|                        | Current (AC/DC, ±30 mA max.)                                       |  |
|                        | ICP-type accelerometer (2 mA, 24 V max.)                           |  |
|                        | Current Linedrive (CLD) accelerometer (10 V, 10 mA max.)           |  |
| Frequency range        | DC 51.2 kHz (Acceleration from 0.5 Hz)                             |  |
| Dynamic range          | 96 dB (measurement) / 136 dB (total)                               |  |
| Sampling frequency     | up to 131 kHz per channel                                          |  |
| Analog, 1x             | Thermocouple (type K)                                              |  |
| Digital                | RPM, Trigger, Keyphaser with pulse and AC signals: 0 V +26 V       |  |
| (1+1 Pulse/Tacho), 1x  | or -26 V 0 V                                                       |  |
| Output                 |                                                                    |  |
| Stroboscope control    | TTL output                                                         |  |
| Signal-Out             | Connection for headphones to listen to the analog input signal;    |  |
|                        | signal processing (oscilloscope)                                   |  |
| Meas. range / Accuracy |                                                                    |  |
| Vibration acceleration | depends on the transducer connected                                |  |
| Shock pulse            | -1080 dBsv / ± 3dBsv                                               |  |
| RPM                    | 10 200 000 min-1 / ±0.1‰ or ± 1 min-1                              |  |
|                        | (the lower accuracy is applicable)                                 |  |
| Temperature type K     | -50 +1000°C / 1% or ±1°C (the lower accuracy is applicable)        |  |
| Hardware               |                                                                    |  |
| Display                | LCD, backlit, 1/2 VGA (480 x 320 pixel), 16 grey scales            |  |
| Battery type           | Li lon rechargeable battery pack (7.2V / 4.8Ah - 34 Wh)            |  |
| Charging time          | < 5 hours in the device or external with optional charging station |  |
| Charging temperature   | 0°C +50°C                                                          |  |
| Memory                 | Internal: 64 MB RAM;                                               |  |
|                        | Compact Flash: 1 GB or 4 GB                                        |  |
| Dimensions             | 250 x 220 x 37 mm (LxWxH)                                          |  |
| Weight                 | approx. 2.3 kg                                                     |  |
| IP rating              | IP65, dust and splash-proofed                                      |  |
| Temperature range      | -10°C +50°C (Operation)                                            |  |
| remperature range      | -20°C +60°C (Storage)                                              |  |
| remperature range      | -20 C +00 C (Storage)                                              |  |

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Quality Service

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