

## DATA SHEET

### VIBRATION VELOCITY TRANSDUCER - VS069

|                                                        |   |                                                                                                      |
|--------------------------------------------------------|---|------------------------------------------------------------------------------------------------------|
| a) Measured Parameter                                  | : | Vibration Velocity                                                                                   |
| b) Direction of Measurement                            | : | Horizontal $\pm 20^\circ$ (VS069)                                                                    |
| c) Measuring Principle                                 | : | Electro dynamic (moving coil)                                                                        |
| d) Sensitivity (at f= 80 Hz.)                          | : | 100mV/(mm/s) $\pm 5\%$                                                                               |
| e) Operating Frequency range                           | : | 10 Hz. to 2 kHz. $\pm 5\%$                                                                           |
| f) Natural frequency ( $f_0$ )                         | : | 8 Hz $\pm 10\%$                                                                                      |
| g) Dimensions                                          | : | Diameter 38 mm<br>Overall length 75 mm<br>Connecting thread M10<br>Spanner SW 27                     |
| h) Weight                                              | : | Approx. 0.35 kg                                                                                      |
| i) Working temperature range                           | : | -40°C-----+100°C                                                                                     |
| j) Max. Admissible Vibration Displacement              | : | $\pm 0.45\text{mm}$                                                                                  |
| k) Internal Impedance                                  | : | 4K $\Omega$ $\pm 10\%$                                                                               |
| l) Electric Connection                                 | : | Shielded, 2- core (PTFE) (Sensor's cable)<br>Teflon cable 5 / 10 /15 Meters. Long with<br>SS Conduit |
| m) Length of signal cable                              | : | Max. 200 m<br>(Between Transducer & Monitoring unit)                                                 |
| n) Protective Class                                    | : | IP 66                                                                                                |
| o) Mounting Thread<br>(Suitable for Mounting Pad/Stud) | : | M10; 10mm deep                                                                                       |
| p) Transverse Sensitivity                              | : | <7%                                                                                                  |