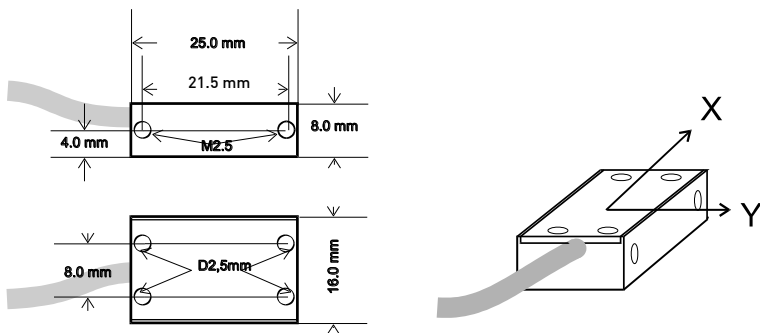


|                                 |      |
|---------------------------------|------|
| <b>AC-CAP2-50G</b>              |      |
| 2 AXIS CAPACITIVE ACCELEROMETER |      |
| Ref:                            | SN : |

Texys sensors are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

|                           |             |      |
|---------------------------|-------------|------|
| Range                     | ±50         | G    |
| Accuracy                  | 1.5         | %    |
| Sensitivity               | 40 +/-8%    | mV/G |
| Bandwidth 3dB (std)       | DC to 100   | Hz   |
| Max Bandwidth on request  | 400         | Hz   |
| Supply Voltage            | 5 to 16     | V    |
| Supply Current            | 3           | mA   |
| Output Voltage            | 0 – 5       | V    |
| Output Impedance          | 47          | Ω    |
| Calibrator                | LDS V406    |      |
| Error at 0G               | +/- 0.1     | V    |
| Resonance                 | 24          | KHz  |
| Offset Drift (20 to 80°C) | ±20         | mV   |
| Gain Drift (20 to 80°C)   | ±2.5        | %    |
| Dim                       | 25x16x8     | mm   |
| Material                  | Aluminium   |      |
| Weight                    | 15          | g    |
| Protection                | IP66        |      |
| Shock                     | 1000        | G    |
| Operating Temp            | -20 to +100 | °C   |
| Storage Temp              | -40 to +125 | °C   |

Examples of inertial units with Texense Gyros and Accelerometers



| Sensor Readings        |   |   |
|------------------------|---|---|
|                        | X | Y |
| Signal (V) @ -1G       |   |   |
| Signal (V) @ 0G        |   |   |
| Signal (V) @ +1G       |   |   |
| Sensitivity (mV/G)     |   |   |
| Cut off frequency (Hz) |   |   |

Cable : 4x26AWG FEP Tinned copper braided cable 250V 200°C  
 Length : \_\_\_\_ mm  
 Tubing: \_\_\_\_\_  
 Connector : \_\_\_\_\_

| Colour | Function      | Pin |
|--------|---------------|-----|
| Red    | Supply        |     |
| Black  | 0V            |     |
| White  | Signal X      |     |
| Green  | Signal Y      |     |
| Braid  | Not connected |     |

| Std Calibration table |       |  |  |  |
|-----------------------|-------|--|--|--|
|                       | 50G   |  |  |  |
| -50                   | 0.5 V |  |  |  |
| -40                   | 0.9 V |  |  |  |
| -30                   | 1.3 V |  |  |  |
| -20                   | 1.7 V |  |  |  |
| -10                   | 2.1 V |  |  |  |
| 0                     | 2.5 V |  |  |  |
| +10                   | 2.9 V |  |  |  |
| +20                   | 3.3 V |  |  |  |
| +30                   | 3.7 V |  |  |  |
| +40                   | 4.1 V |  |  |  |
| +50                   | 4.5 V |  |  |  |

Ordering ref ex: AC-CAP2-XB-YB

AC-CAP2-XRange-YRange

| Range |       |       |       |       |       |           |
|-------|-------|-------|-------|-------|-------|-----------|
| B     | C     | D     | E     | F     | G     | N         |
| ±5G   | ±10 G | ±15 G | ±20 G | ±30 G | ±50 G | Not wired |