



# GYRN3-S

3 AXIS GYROSCOPE

Ref:

SN: \_\_\_\_\_ Software version : \_\_\_\_\_

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, ±100, ±150 | °/s    |
| Accuracy                   | 2               | %      |
| Sensitivity                | 40, 20, 13.3    | mV/°/s |
| Cut off frequency          | 40              | Hz     |
| Supply Voltage             | 5 to 16         | V      |
| Supply Current             | 16              | mA     |
| Output Impedance           | 47              | Ω      |
| Linear analog output       | 0 to 5          | V      |
| Output signal at 0°/sec    | 2.5             | V      |
| Calibrator                 | rotaring plate  |        |
| Error at 0°/sec            | ±1              | °/s    |
| Cross axis sensitivity     | 3               | %      |
| Offset Drift (20 to 80°C)  | ±0.5            | °/s    |
| Offset Drift (20 to 100°C) | ±0.8            | °/s    |
| Gain Drift (20 to 80°C)    | ±0.3            | %      |
| Gain Drift (20 to 100°C)   | ±1              | %      |
| Dim                        | 30 x 21.5 x 11  | mm     |
| Material                   | Aluminum        |        |
| Weight (without cable)     | 21              | g      |
| Protection                 | IP66            |        |
| Vibration test             | 20Gpp 5'        |        |
| Shock                      | 1000            | G      |
| Operating Temp             | -20 to +105     | °C     |
| Storage Temp               | -40 to +125     | °C     |

| Sensor Readings |            |        |
|-----------------|------------|--------|
|                 | mV at 0°/s | mV/°/s |
| X               |            |        |
| Y               |            |        |
| Z               |            |        |

Cable : 6x26AWG FEP Tinned copper braided cable 250V 200°C

Length : \_\_\_\_\_ mm Tubing: DR-25-TW-1/8-0-SP

Connector : \_\_\_\_\_

| Colour | Function                   | Pin |
|--------|----------------------------|-----|
| Red    | Supply                     |     |
| Black  | 0V                         |     |
| White  | Signal X                   |     |
| Green  | Signal Y                   |     |
| Yellow | Signal Z                   |     |
| Blue   | Diag (not to be connected) |     |

| Calibration table |                    |                     |                       |
|-------------------|--------------------|---------------------|-----------------------|
| °/s               | ±50°/s<br>40mV/°/s | ±100°/s<br>20mV/°/s | ±150°/s<br>13,3mV/°/s |
| -150              |                    |                     | 0.5                   |
| -100              |                    | 0.5                 | 1,17                  |
| -50               | 0.5                | 1.5                 | 1,83                  |
| 0                 | 2.5                | 2.5                 | 2.5                   |
| +50               | 4.5                | 3.5                 | 3.17                  |
| +100              |                    | 4.5                 | 3,83                  |
| +150              |                    |                     | 4.5                   |

Out of Range

Ordering ref ex: GYRN3-S-XA-YB-ZC

GYRN3-S-XRange-YRange-ZRange

| Range |        |        |           |
|-------|--------|--------|-----------|
| A     | B      | C      | N         |
| 50°/s | 100°/s | 150°/s | Not wired |

