

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

-731-997-

muRata

www.DataSheet4U.com

Specification

of

GYROSTAR®

- Piezoelectric Vibratory Gyroscope -

MODEL: ENV-05H-01 (*)

Support Sensor for GPS Navigation

(*) replaces previous preliminary model part number ENX-0031A

Issue no. 2
02.05.95

www.DataSheet4U.com

MURATA MANUFACTURING CO. LTD.

Gyrostar® ENV-05H-01

Piezoelectric Vibratory Gyroscope

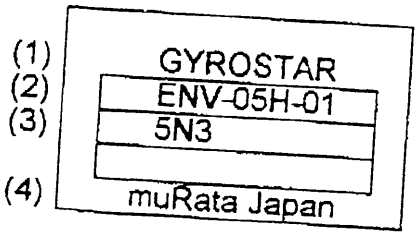
Structural characteristics

External Dimensions	24 x 40 x 48 mm max. (details of mechanical construction see figure 1)
Material of case	molded resin case (black)
Weight	50 gr. max.
Length of connecting cable	150 mm
Connector	Co. SMK, Japan : Type W-A2503-IN (3 terminal type)

Marking

(1) Commodity name
(2) Model name
(3) Serial number

(4) Manufacturing company



Terminal connections

Terminal wire colour	Terminal No.	Description	Symbol
red black white	① ② ③	Supply voltage Ground Sensor output	Vcc GND Out

Mounting

Use 4 pcs. machine screws M3, max. 10 mm long

www.DataSheet4U.com

MURATA MANUFACTURING CO. LTD.

Gyrostar® ENV-05H-01

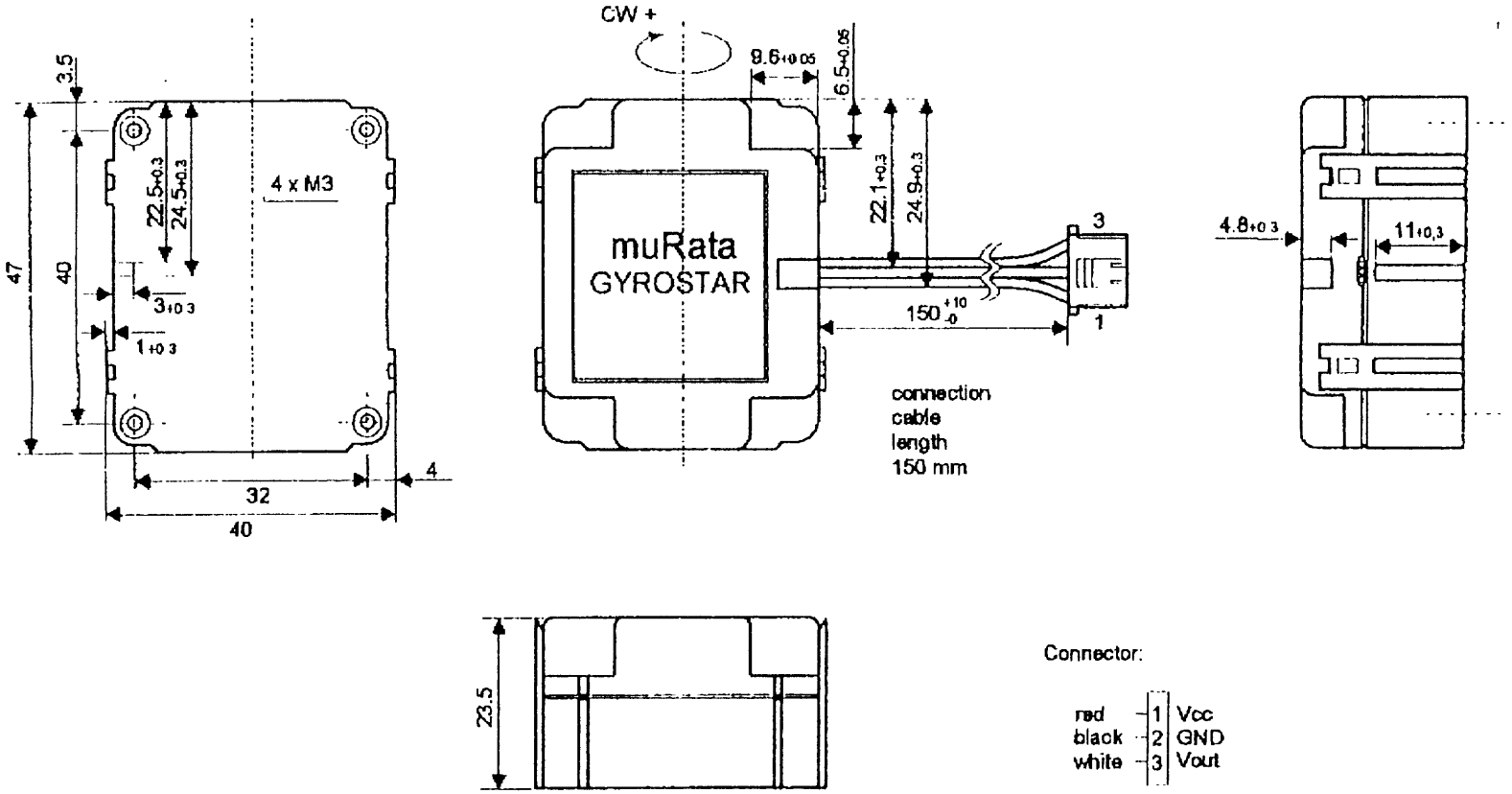
Piezoelectric Vibratory Gyroscope

Technical Specification

1.	Supply voltage Vcc	+5.0 VDC ±0.5 VDC
2.	Current consumption Icc	15 mA max.
3.1	Angular velocity ω	± 90 deg./sec @ 25°C ± 3°C
3.2	Max. angular velocity ω max.	± 60 deg./sec @ -30°C to 80°C
4.	Output Voltage V_O	+2.5 V ± 300 mV @ ω = 0 (within temperature range -30°C to 80°C)
5.	Scale factor Sv	22.2 ± 0.67 mV/deg/sec @ 25°C ± 3°C 22.2 ± 2.90 mV/deg/sec @ -10°C to 60°C 22.2 ± 4.00 mV/deg/sec @ -30°C to 80°C
6.	Linearity	within ± 0.5% FS of max. angular velocity range
7.1.	Resolution	0.1 deg/sec. max.
7.2.	Asymmetry CW & CCW	3 deg/sec. max
8.	Response	7 Hz (Phase delay 90°)
9.	Offset drift	23 deg./sec max (equiv.: 500 mV_{pp}) (@ operating temperature range -30°C to 80°C)
10.	Zero point stability (start-up)	Within ± 20 mV/10 min. (V_O measured after 5 sec @ stable temp. 25°C ± 3°C)
11.	Operating temperature range T_{opr}	-30°C to 80°C
12.	Storage temperature range T_{stg}	-40°C to 85°C
13.	Dependence on Supply voltage	Δ Scale factor (%) = (1.1±0.2) ΔVcc(%) Δ Output voltage (%) = (1.0±0.2) ΔVcc(%) (@ Vcc = 5.0 V)
14.	Output noise level	≤ 10 mVrms @ 8 kHz

03-FEB-1998

EXTERNAL DIMENSIONS OF GYROSTAR ENV-05H-01 and ENV-05H-02



Connector:

red	1	Vcc
black	2	GND
white	3	Vout

Measurement Tolerance = ± 0.2
Unit: mm

Figure 1

ISSUE #2
02.05.1995

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP