

iTES-PDT-07

Small Size Single Axes Precision Turntable with 0.7 Nm Torque

iMAR manufactures gyroscopes and inertial measuring systems in all classes of performance. Beside of our sensor and navigation products we also provide gyro test equipment.

With the iTES-PDT07 iMAR provides a high precision single axis angular rate system for testing of gyroscopes and smaller IMUs (e.g. MEMS based IMUs) under laboratory conditions.

iTES-PDT07 comes with a RS232 interface, which is used to control the turn-



table. Commands are available like "constant rate", "angular step", "absolute angular position" or "adjust angular acceleration". Furthermore a CAN interface is available to monitor the motion in realtime. The system is powered by 24...48 V DC (option: 14...34 V).

> For multi axes IMU testing or for operating heavy loads please refer

to our specific testing systems.

Technical Data of iTES-PDT-07-SV [-A]:

Mounting Area / Table Top: Mounting Threads on Mounting Platen:

Table Drive:

Torque:

Rate: Inertia of Table Top: Angular Resolution: Number of Slip Rings / Current: Interfaces: Size and Weight / max. Payload:

Power Supply: Temperature: Diameter d=200 mm M6, all 25 x 25 mm² Number of threads: 45 Brushless Direct Drive System with high-res angular incremental encoder Tn 0.7 Nm 3.0 Nm T_{max} 250 min⁻¹ (1500 deg/s); [option -A: 120 min⁻¹] I = 4,33 10⁻³ kgm² 5.5 arcsec [option -A: 0.55 arcsec] 24 slip rings, each 2 A (SubD25 connector) RS232 (57.6 kBd) for command, CAN (500 kBd) D = 250 mm, H = 160 mm approx. 5.6 kg / max. payload 4 kg 24...48 V DC; [option -LV: 14...34 V DC], max 150 W 15...25 °C (operating)

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