ECONOMICAL FORCE OR TORQUE INDICATORS WITH REMOTE SENSORS

DFG-RS3

Interchangeable Force and Torque Sensors
High Speed 2000 Hz Sampling rate
Ultra-Compact Size
4 Selectable Units of Measure
Load Cells Available in Ranges from 0.25 to 10,000 lb
Torque Sensors for 10 oz-in to 100 lb-in Ranges
USB Data Output
Programmable SetPoints with Pass/Fail Indicators
Large Backlit Graphics Display
Live Load Bargraph with Set Point Markers
Peak Readings and Set Points Always Displayed

The DFG-RS3 is an economical digital force and torque indicator that works with a wide variety of plug and play force and torque sensors. All calibration and configuration data is stored in the sensors smart connector instead of the indicator making the sensors truly interchangeable. In addition all of the remote sensors are also fully compatible with the advanced DFG-RS5 force/torque indicators.

A variety of interchangeable force and torque sensors are available for use with the RS3 series. Sensors are available in a range of capacities from 0.25 to 10,000 pounds force for load cells and 10 oz-in to 100 lb-in for torque sensors. In addition to the pre-calibrated sensors the DFG-RSA programmable adapter allows the end user to calibrate most bridge type force or torque sensor with a 1 to 3 mV/V full scale output to work with the DFG-RS3.

SPECIFICATIONS
Accuracy: 0.2% of full scale + sensor
Power: Rechargeable battery or AC using adapter (batteries and adapter included)
Battery Life: Up to 7 hours continuous use with backlight on or 24 hours with backlight off
Low Battery: Multi-step low battery indicator is displayed, gauge shuts off automatically when power is too low
Configurable Settings: Digital filters, USB output, automatic Shutoff, default settings, key tones, audio alarms, calibration
USB Output: Individual data points by pressing the “DATA” key. Configurable to 115,200 baud
Operating Temperature: 4 to 38°C (40 to 100°F)
Humidity: 96% RH non-condensing

Dimensions: 99.1 H x 64.3 W x 38.1 mm D (3.90 x 2.53 x 1.50")
Weight: 0.3 kg (0.7 lb)

SENSOR COMMON SPECIFICATIONS
Operating Temperature: 5 to 38°C (40 to 100°F)
Operating Humidity: 96% non-condensing maximum

LOAD CELLS
Safe Overload: 150% of full scale (200% for RLC03-025, RLC03-2 and RLC04 series)

TORQUE SENSORS
Safe Overload: 150% of full scale (300% for RTQ50-10Z, RTQ50-50Z)
Chuck Opening: RTQ50-10Z and RTQ50-50Z – 0.062 to 0.375" RTQ50-12, RTQ50-100 – 0.078 to 0.5"
F-2

Comes complete with carrying case, universal voltage AC adaptor, quick start guide, users manual and certificate of conformance.

All RLC or RTQ sensors come with a NIST traceable calibration certificate. Hooks sold separately part # G1038.

Remote sensors sold separately.

Ordering Examples: DFG-RS3, economical handheld force or torque indicator, plus RLC01-500, remote 500 pound “S” type load cell. DFG-RS3, economical handheld force or torque indicator, plus RTQ50-12, ±12 lb in reaction torque sensor.

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