ADVANCED DIGITAL FORCE OR TORQUE INDICATORS WITH REMOTE SENSORS

DFG-RS5

✓ Interchangeable Force and Torque Sensors

✓ High Speed 7000 Hz Sampling Rate

- 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
- Calibration Data Stored in Sensor
- ✓ USB, RS232, Mitutoyo and **Analog Outputs**
- ✓ Programmable Setpoints with Indicators and Outputs
- ✓ Large Backlit Graphics Display
- ✓ Live Load Bar Graph with Set Point Markers
- ✓ Peak Readings and Set **Points Always Displayed**

The DFG-RS5 is a high performance digital 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 DFG-RS3 basic force/torque indicators.

A variety of interchangeable force and torque sensors are available for use with the DFG-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 adaptor 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-RS5.

The DFG-RS5 also shares menu structure and most specifications with the DFG55 force gauges. It's fast 7000 Hz sampling rate produces accurate results even for quick action tests. It also has an average mode that addresses the need to record the average load over time and an on board data memory for up to 1000 readings.

See our full line of remote sensors RLC and RTQ series.





A backlit graphic LCD displays large characters and a menu is available to access the gauges features and

configurable parameters. Units also have a USB output for data collection and setpoint indicators for pass-fail testing.

SPECIFICATIONS

DFG-RS5, shown with DFG-RSA,

sold separately.

Accuracy: 0.1% of full scale ±1 digit + 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, outputs, automatic shutoff, default settings, averaging mode, external trigger, passwords, key tones, audio alarms, backlight, calibration

Outputs:

USB/RS232 Output: Configurable to 115,200 baud

Mitutoyo (Digimatic): Serial BCD suitable for all Mitutoyo SPC compatible devices

Analog: ±1 Vdc, ±2% full scale accuracy

General Purpose: 3 open drain

outputs, 1 input

Set Points: 3 open drain lines Operating Temperature: 4 to 38°C

(40 to 100°F)

Humidity: 96% RH non-condensing **Dimensions:** 149.4 H x 64.3 W x 33.6 mm D

DFG-RSA smaller than

Calibrates remote sensor to meter.

actual size.

(5.88 x 2.53 x 1.32") 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"



OMEGACARE™ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE™ covers parts, labor and equivalent loaners.



To Order	
MODEL NO.	DESCRIPTION
DFG-RS5	Advanced force or torque indicator for use with remote sensors*
DFG-RSA	User configurable remote sensor adaptor*

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.

Ordering Examples: DFG-RS5, advanced handheld force or torque indicator, plus RLC01-500, remote 500 pound "S" type load cell. DFG-RS5, advanced handheld force or torque indicator, plus RTQ50-12, ±12 lb in reaction torque sensor.

^{*} Remote sensors sold separately.