



The complete testing solution for strain, torque, temperature and bending load data on rotating components. Designed and packaged specifically for the automotive industry and Ideally suited to drive shafts the Datatel mobile inspection package includes everything that you need to get setup and running with your measurements.\*



The system requires minimal training and hardware configuration, it is simple to operate with rugged design and construction that's known to Datatel users around the world. The mobile inspection package combines the Datatel design philosophy with the latest hardware technologies.

Using the rapid mounting kit included in the pack you can be ready to make measurements within minutes. Simply fix the telemetry transmitter, aerial and power source to the shaft and connect your strain gauge.

### Key Benefits.

- ⊕ Easy to operate, minimum training required.
- ⊕ Reliable, accurate results.
- ⊕ User configurable measuring ranges.

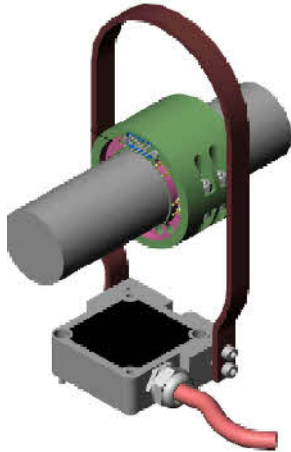
### Key Features.

- ⊕ Highly compact
- ⊕ Designed for High G environments.
- ⊕ Up to 10m transmission range
- ⊕ Optional inductive power.

Included in the pack is a precision calibration box, that can be used to calibrate the telemetry system and provide a simple method to check functionality.

The systems can be inductively powered for long-term installation





#### 1-Channel Transmitter dt1001T-ST

Parameter	Type / Value	Dim
operating temperature	-40 to 125	°C
mechanical dimensions	37 x 30 x 9mm	
weight	s. system specific.	
Transmitter supply		
type	DC	
supply voltage	min.5.1 opt.7.0 max.9.0	V DC
reverse polarity protection	yes	
current consumption	23 ± 2	mA

#### Sensor data

sensor type	S/G / TC type K	
sensor supply	constant voltage	
sensor supply voltage	$U_{\text{gage}} = 5.0 \pm 0.02$	V
sensor resistance	$R_{\text{gage}} \geq 350$	$\Omega$

#### 1-Channel Receiver dt1001R2-S

Parameter	Type / Value	Dim
operating temperature	0 to 40	°C
warm up time	15	min
Software		
Version	1.30	
Receiver supply		
supply voltage	10 to 32	V DC
current consumption	390	mA
fuse	3150	mA
Output		
maximum output voltage	$U_{\text{out,max}} = \pm 10$	V
maximum output load	10	K $\Omega$
coupling	DC	
low-pass filter	f1/f2 0.1/1	kHz
low-pass filter	f3 5	kHz
Output inductive power supply		
output voltage	= supply voltage	Vpp
maximum output current	2.5	A

#### Package Includes.

- ⊕ 1 channel telemetry transmitter.
- ⊕ 1 channel telemetry receiver.
- ⊕ Re-usable mounting kit.
- ⊕ Calibration box
- ⊕ Rugged aluminium transport case
- ⊕ Magnetic mount antenna
- ⊕ Power supply and cabling
- ⊕ Comprehensive instruction manual.

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