



Description

The wireless pressure measurement system consists of a sensor with an integral transmitter, and a receiver in separate housings. Measurement signals are transmitted by a 2.4GHz radio link. The measurement system has been specially designed for measuring the pressures in motor vehicle braking systems. The output at the receiver is available as a current signal or as a digital data stream.

The sensor with its integral transmitter is installed in a handy housing with a protective frame. The system is battery powered. The batteries are charged using the mains-socket battery charger supplied.

The system has two operating modes with different automatic switch-off times. It also incorporates fault recognition algorithms which can detect transmitter failure, radio interference, and if the receiver is out of range.

Features

- | Nominal loads: 10 and 20 bar
- | Compact design
- | Wireless transmission
- | Integral rechargeable batteries
- | Supplied with mains-socket battery charger
- | Choice of switch-off times
- | Fault recognition

Applications

- | Checking brake line pressures

Technical Data				
Type	Nominal load	Transmitter	Receiver	Output
DAF1.0 / 10	10 bar	RFT 2.1	RFR 2.0	1-9mA
DAF1.0 / 20	20 bar			4-20mA Optional: digital output

Technical data for sensor

Type of measurement	Pressure (bar)
Overload	1.2x nominal load
Total error / accuracy	<0.5 % f.s.
Temperature range	See transmitter specification
Degree of protection	IP 40
Connection, female thread	½"

Options

Digital output through USB-socket as decimal or hexadecimal data stream

Technical data for wireless transmission

Transmission channels	80
Range	25 m
Transfer rate	200 Hz

Transmitter RFT2.1

Power supply	4 x type AA rechargeable batteries
Power requirement	150 mW (30 mA)
Automatic switch-off times	10 min. / 60 min.
Operating temperature range	-10° C to +50° C
Storage temperature range	-30° C to +50° C (without batteries)
Degree of protection	IP 40
Dimensions	B 78 x L 175 x H 44 mm
Mains-socket battery charger	9V / 800 mA

Receiver RFR2.0

Power supply	12–14 VDC
Power requirement	700 mW (60 mA)
Operating temperature range	-10° C to +50° C
Storage temperature range	-30° C to +50° C
Degree of protection	IP 40
Dimensions	B 67 x L 125 x H 30 mm
Cable	
Type	LIYCY / 4x0.25 mm ²
Length	0.5 m