

## Pedal force meter with radio link

# PKF 2.0



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Nominal load up to 1500 N  
Mechanical overload protection

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Checking brake-pedal forces

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Designed,  
developed and  
made in Germany

The HKM pedal force meter is specially designed for measuring the force applied to brake pedals in motor vehicles. Measurement of this force is essential for effective brake testing. The wireless force-measurement system consists of a sensor, a transmitter, and a receiver each in a separate housing. The pedal force

sensor is connected to the transmitter by a cable. They are battery powered. Measurement signals are transmitted by a 2.4 GHz radio link. The output at the receiver is available as a current signal or as a digital data stream. 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.

## Technical data

Type	PKF 2.0 / 1000	PKF 2.0 / 1500
Nominal load [N]	1000	1500
Transmitter	RFT 2.0	
Receiver	RFR 2.0	
Output	1...9 mA 4...20 mA Optional: digital output	

## Technical data for sensor

- » Type of measurement            Compressive force
- » Overload                            1.5 x nominal load
- » Total error / accuracy            < 0.5% f.s.
- » Temperature range                See transmitter specification
- » Degree of protection              IP 65
- » Dimensions                        L 70 x W 50 x H 25 mm
- » Material                             Aluminium

## Technical data for wireless transmission

- » Transmission channels            80
- » Range                                25 m
- » Transfer rate                        200 Hz
  
- » Transmitter RFT 2.0
  - › Power supply                        4 x type AA (Mignon) batteries
  - › Power requirement                150 mW (30 mA)
  - › Automatic switch-off times        10 min. / 60 min.
  - › Operating temperature            -10°C to +50°C
  - › Storage temperature              -30°C to +50°C (without batteries)
  - › Degree of protection              IP 40
  - › Dimensions                        L 145 x W 78 x H 44 mm
  - › Cable Type and length            FDCY, 4 x 0.14 mm<sup>2</sup>, length 1.5 m
  
- » Receiver RFR2.0
  - › Power supply                        12...14 VDC
  - › Power requirement                700 mW (60 mA)
  - › Operating temperature            -10°C to +50°C
  - › Storage temperature              -30°C to +50°C
  - › Degree of protection              IP 40
  - › Dimensions                        L 125 x W 67 x H 30 mm
  - › Cable Type and length            LIYCY, 4 x 0.25 mm<sup>2</sup>, length 0.5 m

Fig. Receiver



## Options

- » Digital output through USB-socket as N, kg, decimal or hexadecimal