

Pedal force meter

PK-, PKH-SERIES 1.0 / 2.X



Nominal load -car/HGV version- up to 1500 N
 Nominal load -two-wheeler version- up to 500 N
 Mechanical overload protection
 Shallow construction

Force measurement on car and HGV
 foot pedals or parking brakes
 Force measurement on bicycle and
 motor cycle handbrake levers

Designed,
 developed and
 made in Germany

HKM pedal force meters are specially designed for the vehicle testing field. The pedal force meter series 2.x for cars and HGVs measures forces acting on the foot pedal or the parking brake. To make a measurement, the force transducer is simply clipped onto the pedal with a clamp strap or attached to the parking brake with a strap.

The pedal force meter series 1.0 for two-wheelers is used for measurement of the forces on the handbrake lever of motor cycles. We offer various options for the data output: With the first option, the readings can be output in analogue form. The transducer is fitted with an integrated measuring amplifier for this.

Another output variant consists of a combination of the pedal force meter and an HKM hand-held terminal. The readings can be read off from the terminal display and the maximum value retrieved by simply pressing a button. Depending on the hand terminal, there is the possibility of providing an analogue output signal.

Technical data

Type	Force transducer series PK 2.x for cars and HGVs	Force transducer series PK 1.0 for two-wheelers
Nominal load	1500 N	500 N
Dimensions [mm]	L 70 x W 50 x H 25	depending on output variants and evaluation, see below
Material	aluminium	
Accuracy	0.5% f.s. (f.s. = full scale)	
Operating temperature	-10°C to +50°C	
Protection	IP 65	

Output variants without measuring amplifier / with integrated measuring amplifier (type PK)

Type PK	without measuring amplifier	with measuring amplifier; current output	with measuring amplifier; voltage output	
Output	approx. 2 mV/V	4...20 mA 1...9 mA	0...2 V 0...5 V	0...10 V
Supply [V]	<+10	+10...30	+6...30	+11...30
Dimensions transducer series 1.0 [mm]	L 100 x W 26 x H 24	L 122 x W 30 x H 31.5		
Cable type at transducer series 2.0	FDCY, 4 x 0.14 mm ²			
Cable type at transducer series 1.0	LIFY-CB-Y, 4 x 0.1 mm ²	FDCP plus, 4 x 0.14 mm ²		
Cable length	1.5 m	5 m		

Optionally with evaluation electronics: with hand-held terminal HT 6.0 or HT 2.0 (type PKH)

Type PKH	with hand terminal HT 6.0	with hand terminal HT 2.0
combinable with transducer-type	PK series 1.0 (dimensions L 100 x W 26 x H 24 mm) PK series 2.x	PK series 1.0 (dimensions L 122 x W 30 x H 31.5 mm) PK series 2.x
Display	LCD-display, 12 digits, 2 lines	LCD-display, 8 digits, 1 line
Analogue output on hand terminal	–	1 mV/N or 1...9 mA (accessories: cable)
Operating temperature	0°C to +50°C	-10°C to +50°C
Supply	4 x battery type AA	integrated rechargeable battery (accessories: mains-socket battery charger)
Dimensions of the hand terminal [mm]	L 145 x W 78 x H 44	L 204 x W 110 x H 41
Case	ABS	ABS
Cable length between HT and transducer	1.5 m	1.5 m
Protection	IP 40	IP 40
Approval	APK approval in Netherlands	–



Fig.:
Hand terminal HT 6.0



Fig.:
Hand terminal HT 2.0

Optionen

- » Hand-held terminal HT 2.0 with RS232-interface
- » Pedal force meter with wireless data transmission by radio (type PKF)
- » Strap for attaching the force transducer to handbrakes