



# Pedal Force Transducer

Pedal  
Force  
Transducer

*for*

**Measurement of Force Exerted on  
the Brake Pedal During Brake Tests**

## Capabilities

- Determine force exerted on the brake pedal during brake tests
- Record the pedal force independent of the angle of activation
- Applicable for use with brake test stands and for normal driving

## Precision brake force measurement

The CORRSYS-DATRON Pedal Force Sensor measures the force exerted on the brake pedal during brake tests.

The Pedal Force Transducer mounts quickly and easily using a rubber strap.

The sensor can be used with brake-test stands or directly during normal driving.

Pedal force measurements are independent of the angle of the activation force.



# Pedal Force Transducer

## Two versions of the sensor are available:

1. Signal transducer with digital display / 1<sup>st</sup> sensing range (Art. No. 11400)
2. Signal transducer with digital display / 2<sup>nd</sup> sensing range (Art. No. 12018)

The signal transducer is connected to the display unit via a spiral cable. A potentiometer enables zero adjustment of the display.

## Version 1 and 2 offer two operating modes:

- Display of the current pedal force
- Display and storage of the maximum achieved pedal force

## Typical Technical Specifications

### 1. Sensor

Measurement range:	0 – 1500 N
Measurement accuracy:	3% average, 7% maximum
Linearity:	0.1%, 0.7% with integrated signal option
Analog output:	1 mV/N
Dimensions sensor:	50 x 65 x 35 (without fastening element for the rubber strap)
Dimensions digital display unit:	80 x 160 x 65 mm

### 2. Sensing ranges for measuring

Sensing range 1 (Art. No. 11400):	0 ... 1500 N / 1mV/N
Sensing range 2 (Art. No. 12018):	0 ... 250 N / 6 mV/N

- clutch-pedal force
- accelerator-pedal force

### 3. Pintle force

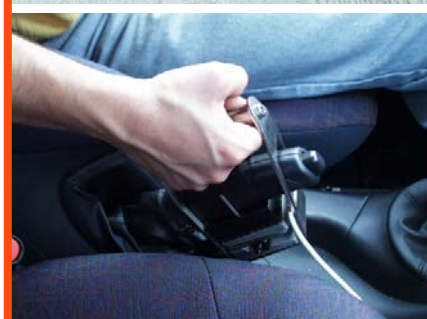
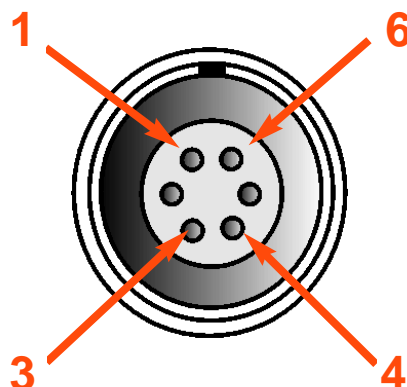
Art. No. 11218

### 4. Special versions

on request

## Pinassignment

Pin	Signal
Pin 1	n.c.
Pin 2	+12V excitation
Pin 3	Signal GND
Pin 4	n.c.
Pin 5	Positive signal
Pin 6	Excitation GND



In a continuous effort to improve our products, CORRSYS-DATRON reserves the right to change specifications without prior notice.

© 2008 CORRSYS-DATRON Sensorsysteme GmbH  
PedalForceTransducer\_d-010-e-rev001 10/08

**CORRSYS-DATRON**  
www.corrsys-datron.com

**International Headquarters**  
CORRSYS-DATRON Sensorsysteme GmbH  
P.O. Box 1349 • 35523 Wetzlar / Germany  
Phone: +49-6441-9282-0  
Fax: +49-6441-9282-17  
e-mail: sales@corrsys-datron.com

**North American Headquarters**  
CORRSYS-DATRON Sensorsystems Inc.  
40000 Grand River, Suite 503 • Novi, MI 48375 • USA  
Phone: 248-615-2035 • Toll-free: 800-832-0732  
Fax: 248-615-2184  
e-mail: USA-sales@corrsys-datron.com

**Chinese Headquarters**  
CORRSYS-DATRON Sensorsysteme GmbH - China  
Room 610, JinTianDi International Mansion,  
No. 998 RenMin Road, Shanghai (200021), P.R.China  
Phone: ++86-21-63114144 • Fax: ++86-21-63114154  
e-mail: Xiaoying.Li@corrsys-datron.com.cn