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 / 1st sensing range (Art. No. 11400)
2. Signal transducer with digital display / 2nd 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 / 1 mV/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

Pin assignment

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>n.c.</td>
</tr>
<tr>
<td>2</td>
<td>+12V excitation</td>
</tr>
<tr>
<td>3</td>
<td>Signal GND</td>
</tr>
<tr>
<td>4</td>
<td>n.c.</td>
</tr>
<tr>
<td>5</td>
<td>Positive signal</td>
</tr>
<tr>
<td>6</td>
<td>Excitation GND</td>
</tr>
</tbody>
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