

RE 30 266-U/07.02

<p>Rexroth Bosch Group</p>	<p>Declaration on environmental compatibility in the field of EMC (as defined by EMC law dated 30th August, 1995 and directive 89/336/EEC), climate and mechanical stress</p>	<p>RE 30 266-U/07.02</p>																				
<p>Product family Pressure transducer</p> <p>Description of the product family: HM16 pressure transducers are used for measuring pressures and converting the measured values into electrical voltages (0 ... 315 bar corresponds to 0.5 ... 5 V).</p>	<p>Product type HM16-1X/315</p>	<p>Data sheet RE 30 266</p>																				
<p>The above products comply with the following basic standards:</p>																						
<p>1. EMC (electromagnetic compatibility)</p> <table border="0"> <thead> <tr> <th data-bbox="284 1041 478 1070">prEN50082-2:1996</th> <th data-bbox="502 1041 702 1070">(VDE 0839 part 82-2)</th> <th data-bbox="742 1086 957 1137"></th> <th data-bbox="1018 1041 1232 1070">Interference immunity</th> </tr> </thead> <tbody> <tr> <td data-bbox="284 1086 462 1137">EN61000-4-2:1995 IEC1000-4-2</td> <td data-bbox="502 1086 635 1115">VDE 0847-4-2</td> <td data-bbox="742 1086 957 1137">ESD (electrostatic discharge)</td> <td data-bbox="1018 1086 1332 1187">Air discharge: Severity 3 / assessment criterion A Contact discharge: Severity 4 / assessment criterion A</td> </tr> <tr> <td data-bbox="284 1205 462 1256">EN61000-4-3:1996 IEC1000-4-3</td> <td data-bbox="502 1205 635 1234">VDE 0847-4-3</td> <td data-bbox="742 1205 853 1256">HF fields (GTEM cell)</td> <td data-bbox="1018 1205 1385 1256">Severity 20 V/m / assessment criterion A f = 1 ... 1000 MHz</td> </tr> <tr> <td data-bbox="284 1274 462 1326">EN61000-4-4:1995 IEC1000-4-4</td> <td data-bbox="502 1274 635 1303">VDE 0847-4-4</td> <td data-bbox="742 1274 928 1326">BURST (transient discharge)</td> <td data-bbox="1018 1274 1388 1422">Supply voltage up to: Severity 3 / assessment criterion A Severity X/2,5 kV / assessment criterion A Data lines up to: Severity 4 / assessment criterion A Severity X/4,0 kV / assessment criterion A</td> </tr> <tr> <td data-bbox="284 1440 462 1491">EN61000-4-6:1996 IEC 1000-4-6</td> <td data-bbox="502 1440 635 1469">VDE 0847-4-6</td> <td data-bbox="742 1440 853 1514">HF fields, conducted interference</td> <td data-bbox="1018 1440 1388 1491">Severity 3/10 V/m / assessment criterion A Severity X/15 V/m / assessment criterion A</td> </tr> </tbody> </table> <p>Test set-up according to EN61000-4-2, EN61000-4-3, EN61000-4-4 and EN61000-4-6</p>			prEN50082-2:1996	(VDE 0839 part 82-2)		Interference immunity	EN61000-4-2:1995 IEC1000-4-2	VDE 0847-4-2	ESD (electrostatic discharge)	Air discharge: Severity 3 / assessment criterion A Contact discharge: Severity 4 / assessment criterion A	EN61000-4-3:1996 IEC1000-4-3	VDE 0847-4-3	HF fields (GTEM cell)	Severity 20 V/m / assessment criterion A f = 1 ... 1000 MHz	EN61000-4-4:1995 IEC1000-4-4	VDE 0847-4-4	BURST (transient discharge)	Supply voltage up to: Severity 3 / assessment criterion A Severity X/2,5 kV / assessment criterion A Data lines up to: Severity 4 / assessment criterion A Severity X/4,0 kV / assessment criterion A	EN61000-4-6:1996 IEC 1000-4-6	VDE 0847-4-6	HF fields, conducted interference	Severity 3/10 V/m / assessment criterion A Severity X/15 V/m / assessment criterion A
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2. Climate

EN60068-2

EN60068-2-1:1994

Cold test

Environmental test

+20 °C to -40 °C / 20 ° increments,
dwell time 1 hour

EN60068-2-2:1993

Dry heat test

+20 °C to +85 °C / 20 ° increments,
dwell time 1 hour

EN60068-2-1:1994
EN60068-2-2:1993

Storage temperature

-40 °C dwell time 16 hours
+125 °C dwell time 16 hours

IEC 68-2-14:1986

Temperature cycles

2 cycles
-40 °C to +85 °C,
dwell time 3 hours at
min./max. temperature

IEC 68-2-30:1985

Damp heat,
cyclical

Variant 2
+25 °C to +55 °C,
95 % to 97 % relative humidity
2 cycles, 24 hours each

3. Mechanical stress

prEN60068-2-6:1994

Sine test

Vibration test in two perpendicular axes

10 cycles,
5 to 2000 Hz;
up to 5 Hz at a logarithmic
frequency change rate of 1 Oct./min.
5 to 57 Hz, amplitude 1.5 mm (p-p)
57 to 2000 Hz, amplitude 10 g
(details per axis)

IEC 68-2-36:1973
DIN 40046-24:1977

Vibration
Broad-band noise
(random)

20 to 2000 Hz,
amplitude 0.05 g² / Hz (10 g RMS)
30 min/axis,

Additional test

Amplitude 0.2 g²/Hz (20 g RMS);
1 hour/axis

EN60068-2-27:1993

Shock test

Half sine 15 g / 11 ms,
3 x in pos., 3 x in neg. direction/axis
in total 12 individual shocks

The specified data is for product description
purposes only and may not be deemed to be
guaranteed unless expressly confirmed in the
contract.

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