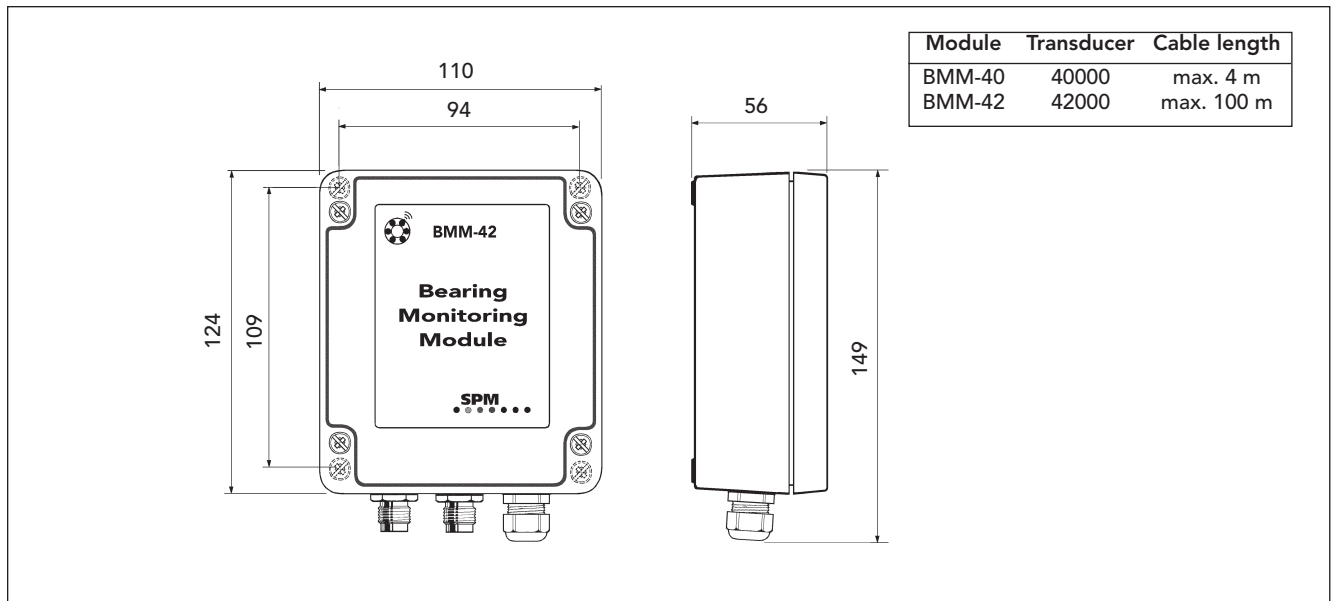


CMM System - Bearing Monitoring Module BMM



Bearing Monitoring Modules BMM are converters with two channels which output 4-20 mA proportional to the unnormalized maximum value of the shock pulses measured on a bearing. The measuring time is approximately 1 second per channel. The measuring range for both channels together can be jumper set to either 0 to 80 or 20 to 100 dBsv.

The 4-20 mA current can be supplied to an display module of type DMM, to a PLC or to a computer controlled monitoring system (e.g. SPM's CMS System).

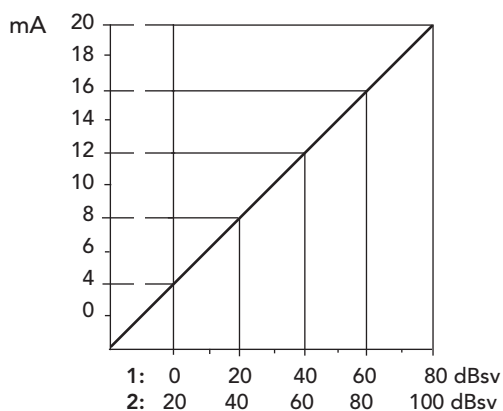
There are two versions:

BMM-40 for shock pulse transducer type 40000. The coaxial cable used between transducer and module is max. 4 m.

BMM-42 for shock pulse transducer type 42000. The coaxial cable used between transducer and module is max. 100 m.

The modules are wall mounted and supplied with 12 to 24VDC. A transducer line fault is indicated by an output of ≤ 1 mA. This output can be changed to 4 mA by a jumper setting, which is common for both channels.

Signal conversion



Technical data

Measuring method:	SPM dBm, unnormalized maximum value
Measuring channels:	2, multiplexing
Measuring range 1:	0 to 80 dBsv (5 dB /mA, 0.2 mA/dB)
Measuring range 2:	20 to 100 dBsv (6.25 dB/mA, 0.16 mA/dB)
Measuring time:	approx. 1 second per channel
Transducer type:	SPM 40000 (BMM-40), SPM 42000 (BMM-42)
Transducer cable:	coaxial cable, SPM 90005-L, or SPM 90267-L (L = length in m)
Analog output:	4 to 20 mA, no galvanic separation
Fault indication:	≤ 1 mA out = interrupted or faulty transducer line
Loop resistance:	100 Ω . Higher resistance will reduce signal accuracy (max. 400 Ω at 12 V, 800 Ω at 24 V)
Power supply:	12 to 24V DC ($\pm 10\%$, tested according to EN 50082-2)
Supply current:	max. 0.1 A
Cable inlet:	IP65 at \varnothing 5.5 to 10 mm
Input connectors:	silver plated brass, 10 to 15 μ
Housing:	polycarbonate, IP65
Vibration exposure:	max 5 mm/s RMS
Temperature range:	0° to 55° C
Dimensions:	110 x 149 x 56 mm
Mounting screws:	4 screws, \varnothing 4 mm, spacing 109x94mm
Weight:	300 g

