

FMS Belt Scales / Electronics Unit

BMGZ 600 Robust, microprocessor controlled electronics unit for belt scales

- Large display:**
 Excellent visualisation and intuitive operation
- Simple configuration:**
 Pre-programmed tare procedure, calibration via platform scale
- Various housing options:**
 Wall mount with IP 54, panel integrated version or fully sealed cabinet with IP 55
- Extension for 2 measuring rollers:**
 Special version for individual processing and display of 2 measuring rollers



BMGZ 600

The electronics of the BMGZ 600 series has been designed for the demanding applications of mobile and stationary conveying systems. The large display will indicate actual performance, daily amount, total amount and belt speed. A configurable analog and digital output is available to connect additional displays or controllers. The integrated RS 232 interface can be utilized to integrate the BMGZ 600 into a master control concept.

Different housing options are available to allow field installation as well as panel integrated installation e.g. in a cabinet. As an option, the BMGZ 600 is also offered as an integrated unit in a sealed cabinet. The BMGZ 610 as single channel version can take the input of a single measuring roller. The BMGZ 620 as the dual channel version will be able to display and process data coming from two independent working measuring rollers. In addition all BMGZ 600 series electronics offer an optional PROFIBUS interface.

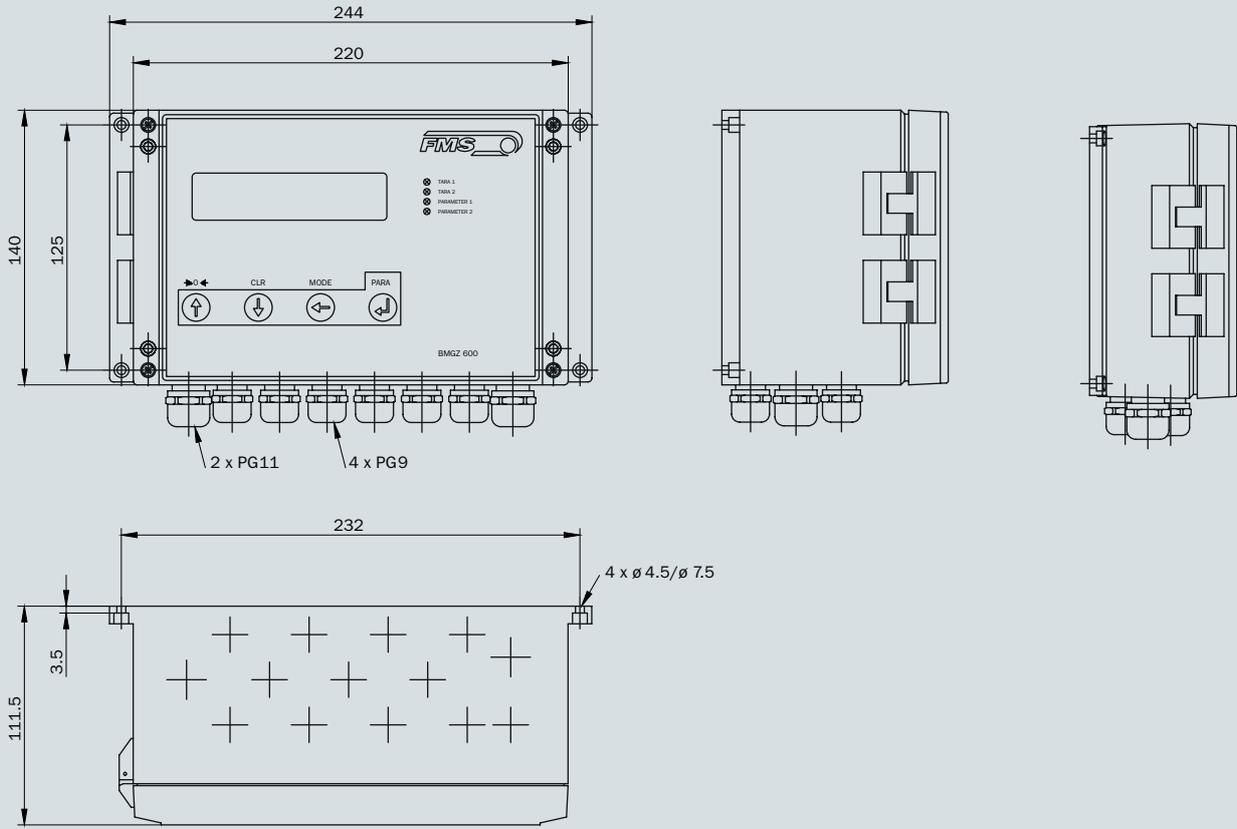
Functional Description

The microprocessor controlled electronics of the BMGZ 600 series converts and digitalizes the signals of the measuring rollers. The electronics subtracts the weight of the measuring roller and the belt (tare) from the actual reading and multiplies the result with the belt speed.

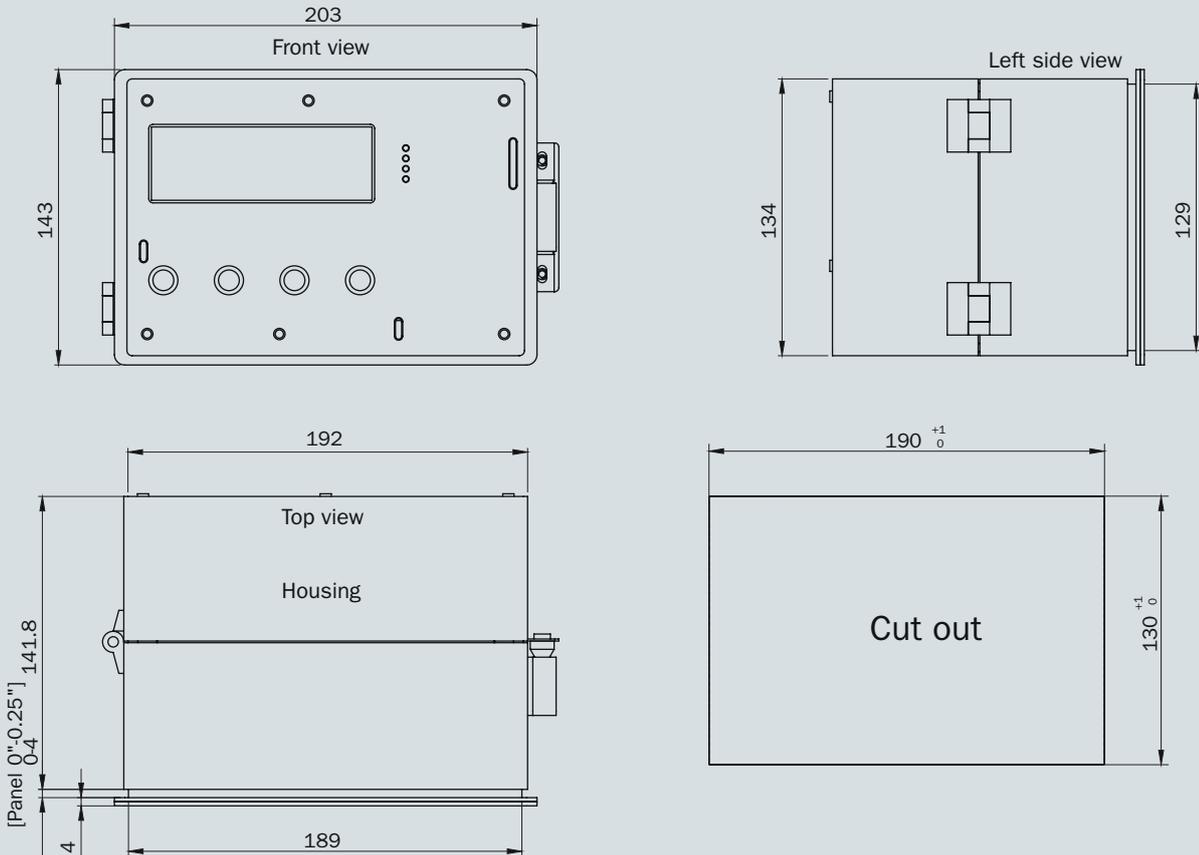
The BMGZ 600 series features standardized analog and digital outputs and a RS 232 interface. It runs an auto-tare function which allows automatic evaluation of the tare value during two turns of the belt.

Calibration of the BMGZ 600 series is done with comparative weighing for example with a calibrated platform scale. The reference value can be entered via the operating panel.

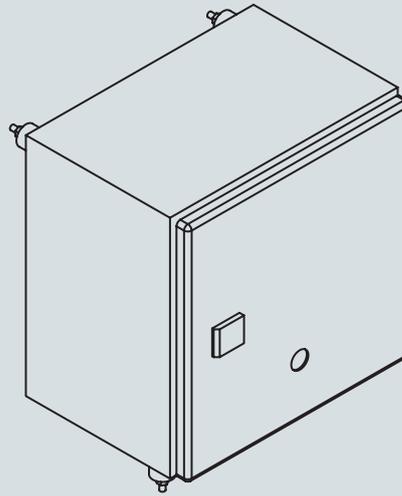
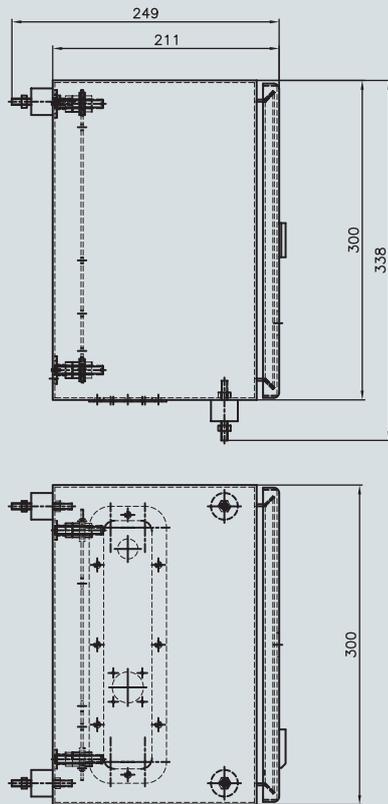
BMGZ 610.W Wall mount housing (IP 54) | Dimensions in mm



BMGZ 600.S Housing for panel integration (IP 00) | Dimensions in mm



BMGZ 600.K Integrated in steel cabinet (IP55) | Dimensions in mm



BMGZ 600 | Technical Data

	BMGZ 610	BMGZ 620
Number of channels	1, for one measuring roller	2, for two measuring rollers
Operation	4 buttons, LCD with 2 x 16 digits	
Indicated values	Totalizer: 0 to 1 Mio. t (resolution 1000 kg); daily amount: 0 to 1000 t (resolution 10 kg); 1000 to 10000 t (resolution 100 kg); 10000 to 99999 t (resolution 1000 kg) actual flow rate [t/h], belt speed [m/s]	
RS 232 interface	Standard	
Relay output	24 VDC/1A, pulse duration 12 ms	
PROFIBUS interface	.P optional	
Connection force sensors	2 x 350 Ω, signal 0 to 9 mV, 5 VDC	4 x 350 Ω, signal 0 to 9 mV, 5 VDC
Cycle time	4 ms	
Temperature range	-10 to +45 °C	
Weight	1.5 kg	
Power supply, power consumption	24 VDC (standard), optional 230 VAC, 5 W	

BMGZ 600 | Order code

BMGZ	6.	20.	A.	W.	24 VDC
					Power supply, other options
					Housing (W. wall mount; S. panel mount; K. in cabinet)
					Revision status
					Type (10: Single channel; 20: dual ch.; 50: single ch. calibratable)
					Series 600
Product group belt scales					

BMGZ 600 | Options

Calibratable version	BMGZ 650, only as single channel
.P	PROFIBUS interface

BMGZ 600 | Scope of delivery

- Electronics unit
- Measuring roller (additional order)
- additional installation material not included

BMGZ 600 | Accessories

- Connecting cable from measuring roller to electronics, 15 m (other lengths on request)

BMGZ 600 | Typical application



FMS Force Measuring Systems AG | Other Products

Tension Monitoring & Control



Web Guiding



Telemetry Systems



FMS Force Measuring Systems AG

FMS Force Measuring Systems AG is a worldwide market leader in the fields of tension measurement/control, web guiding, and specialized telemetry technologies. Our standard and custom solutions are applied in the converting, metals, paper, textile and wire & cable industries. FMS Force Measuring Systems AG's advanced technology, high quality components and extensive application knowledge supports customers around the world in maximizing productivity. Since 1993 our highly skilled workforce has crafted superior solutions and set the benchmark in the industry.

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