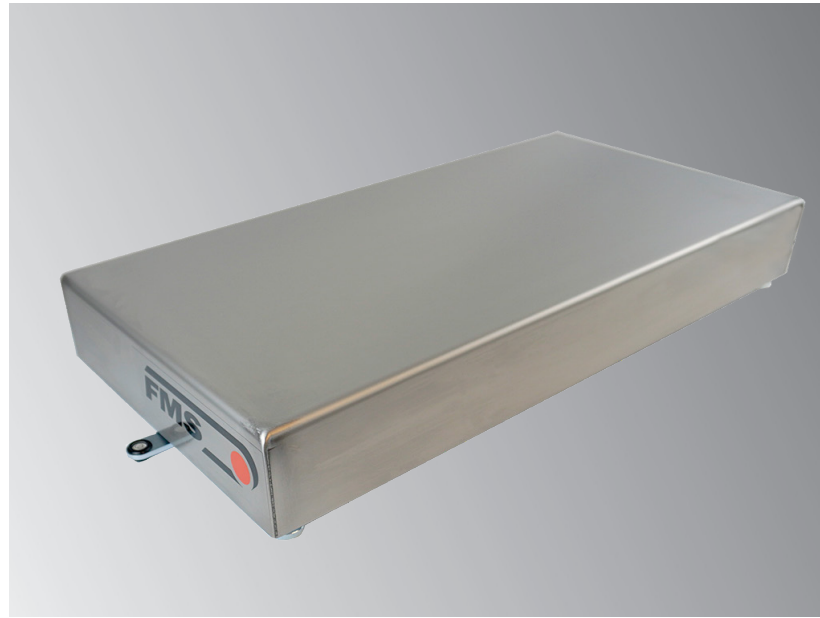


FMS solutions for converting / platform scales

## **FMS-platformSCALE™** Highly precise and modular solution for colour or ink weighing

- **Robust and durable**  
Torsion-resistant, galvanized steel frame with stainless steel cover
- **Highly precise**  
Resolution from 5 g (0.011 lbs.)
- **Modular design and easy system integration**  
Easy integration of scale into your PLC (with FMS measuring amplifiers)
- **Safety**  
Applicable in hazardous areas (with ExMGZ100/200)



### **FMS-platformSCALE**

If you do not want to make any compromises when weighing ink in your printing process, the new FMS-platformSCALE is the ideal solution. Its proven strain gauge technology featuring a resolution from 5 g (0.011 lbs.) at weighing capacities from 50 to 300 kg (110 to 661 lbs.) enables you to continuously and precisely measure the ink consumption in your printing press. Thanks to its high resolution you can even measure and record small consumption rates reliably. The high resolution can even help you to detect leakages in ink pipes in good time to avoid losses. The FMS-platformSCALE is combined with the full range of FMS measuring amplifiers. This combination features easy system integration into your PLC via ethernet as we support standard interfaces such as to PROFINET, EtherCAT and EtherNet/IP. This allows you access and optimize the ink consumption rates of individual print jobs or production batches.


The FMS-platformSCALE is widely applied in flexo printing machines to continuously detect the ink consumption.

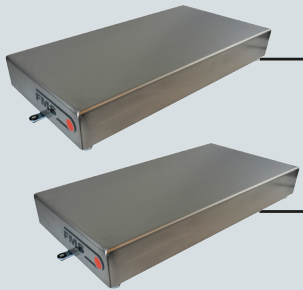
### **Functional description**

Various sizes and options, as well as our capabilities to quickly design and realize customized solutions, make the FMS-platformSCALE to the preferred weighing system for OEMs.

**FMS-platformSCALE : Installation scheme for hazardous areas**




Dual-channel

 hazardous area, Zone 1, Zone 21



non-hazardous area




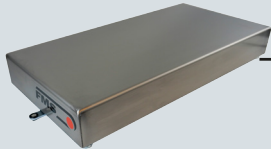
24 (18 to 36) VDC  
  
  


ExMGZ100/200

EMGZ492


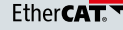

Single-channel

 hazardous area, Zone 1, Zone 21



non-hazardous area



24 (18 to 36) VDC  
  
  





ExMGZ100/200

EMGZ491

**FMS-platformSCALE : Installation scheme for non-hazardous**

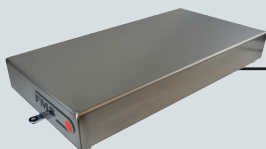
Dual-channel






24 (18 to 36) VDC  
  
  


EMGZ492

Single-channel

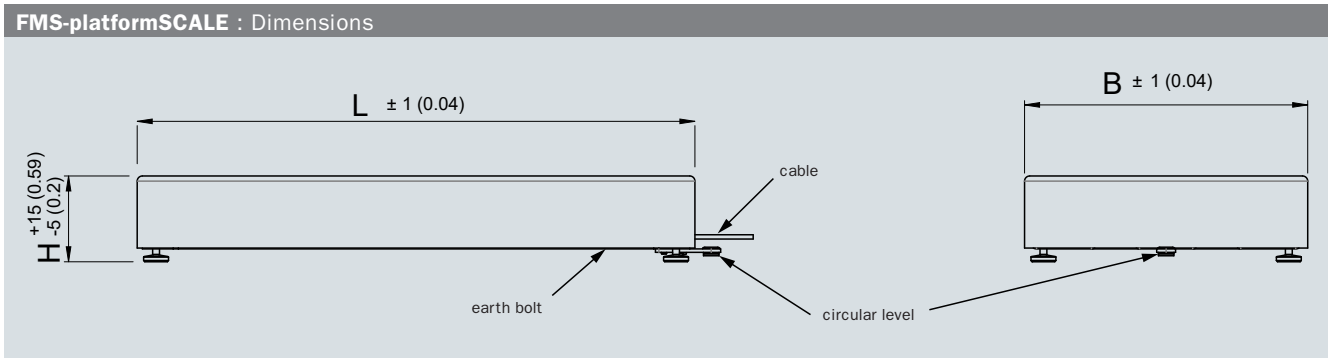


24 (18 to 36) VDC  
  
  


EMGZ491

**EMGZ491 / EMGZ492 : Technical data**

<b>Cycle time</b>	1 ms
<b>Resolution A/D converter</b>	± 32768 Digit (16 Bit)



**FMS-platformSCALE : Dimensions**

Series	Length in 50 mm steps		Width in 50 mm steps		Height	
	mm (in.)		mm (in.)		mm (in.)	
<b>FPS</b>	300 to 650	(11.8 to 25.6)	300 to 500	(11.8 to 19.7)	100	(3.9)

**FMS-platformSCALE : Customized dimensions**  
 The modular concept and flexible design and manufacturing allow for quick and simple realization of your customized solution.

**FMS-platformSCALE : Technical data**

<b>Capacities kg (lbs.)</b>	50 (110)	100 (220)	150 (330)	200 (440)	250 (550)	300 (660)
<b>Minimum verification intervall/ Resolution g (lbs.)</b>	5 (0.011)	10 (0.022)	10 (0.022)	20 (0.044)	20 (0.044)	20 (0.044)
<b>Accuracy class</b>	C3 Multi Range (MR)					
<b>Temperature range</b>	-10 °C to +50 °C (14 F to 122 F)					
<b>Non-linearity</b>	± 0.0166% of capacity					
<b>Maximum permitted load</b>	3-times capacity					
<b>Materials</b>	Supporting frame: galvanized steel; cover: stainless steel; load cell: aluminum					
<b>Protection class</b>	IP 67					
<b>Power supply</b>	1 to 12 VDC (via FMS measuring amplifier)					
<b>Electrical connection</b>	PG-gland with open cable end					
<b>Sensitivity</b>	2.0 mV/V					
<b>Tolerance of Sensitivity</b>	< ± 0.2 %					

**FMS-platformSCALE : Order code**

<b>FPS</b>	<b>-600</b>	<b>-300</b>	<b>.150</b>	<b>.3</b>
	Cable length in m (1.5, 3, 6, 12)			
	Capacity in kg			
	Size: length, width in mm			
	Series			

**FMS-platformSCALE : Scope of supply**

- platform scale
- pg-gland with open cable end (please specify length)

**FMS-platformSCALE : Accessories**

- measuring amplifier EMGZ 491-series; EMGZ 492-series (for 2 pcs. FMS-platformSCALEs)
- connector
- intrinsically safe barrier ExMGZ 100/200

**FMS-platformSCALE** : Typical application



**Other products** : Tension Control

**Measuring amplifier**



**Intrinsically safe barrier**



**About us**

FMS Force Measuring Systems AG is the market leader in the field of web tension measurement, control and specialist for web guiding solutions. For the wire industry we are the only manufacturer offering a complete range of technologies for force measurement, data processing and radio transmission of signals.

Our in house developed products are used in the manufacturing industry, converting, metals, paper, textiles, as well as in cable and wire rope production. Utilising the latest technology, high quality components and a firm understanding of customer applications, FMS supports customers worldwide in the effort to maximize the productivity of their machines. Since 1993, our highly qualified employees have been creating high-end solutions for machine builders and plant operators. As an owner-managed company, we pride ourselves on being personal and approachable with the ability to make decisive moves fast.

**World Headquarters: FMS Force Measuring Systems AG**

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