

# Weight transmitter PR 5220

Space-saving with dosing function EasyFill®



German Quality



## ! Advantages

- High precision, reliable and fast processing of weight values
- Convenient and efficient calibration of the scale in under a minute
- Global remote servicing with the Remote Service functionality
- Dosing function EasyFill® reduces programming time
- Space-saving installation on DIN top hat rails



The 'German Quality' weight transmitter PR 5220 processes weight values from silo and vessel scales quickly and reliably with analogue and digital load cells.

## Ideal for fast and high-precision weighing processes

- ! **Reliable and fast processing** of weight values with up to 120,000 increments.
- ! **'Smart Calibration'** enables PC-based calibration without weights. This efficiently reduces installation times to an absolute minimum.
- ! The **Remote Service functionality** avoids downtime in your production
- ! The simple software application, EasyFill®, for one-component dosing of fluids, powders and granules **reduces programming time** in the PLC and enables fast and flexible process changes.
- ! **Space-saving, cost-effective installation** in the switch cabinet on DIN top hat rails.

## Fast, simple, space-saving installation and connectivity

Designed for space-saving installation in switch cabinets, the compact housing can be mounted directly onto DIN top hat rails and connected together. The space-saving device is easy to install and replace thanks to the plug-in COMBICOM screw terminals.

The weight transmitters of the PR 5220 series have three digital inputs and outputs as standard. These can be used with an application-specific limit function and associated values to avoid over and under filling. Tailored interfaces guarantee optimal integration into leading control systems.

## Product description

### Structure



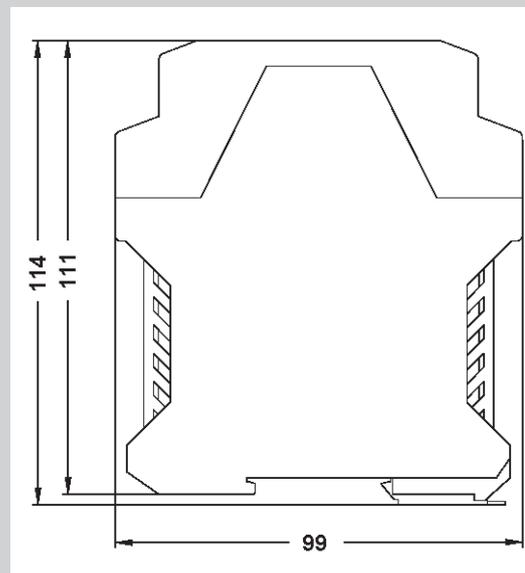
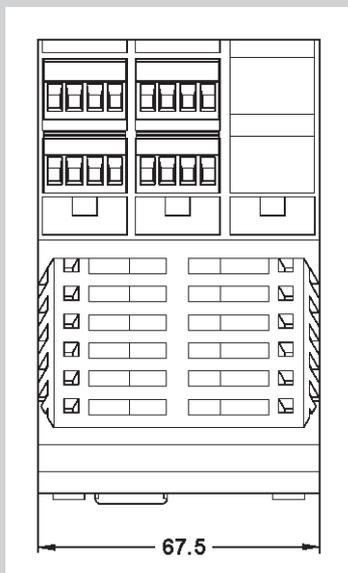
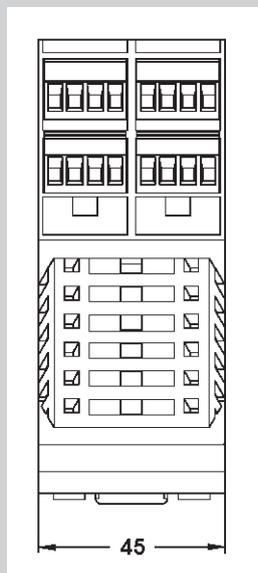
PR 5220/00  
Ethernet transmitter

PR 5220/01  
with Profibus DP

PR 5220/04  
with DeviceNet

PR 5220/06  
with Profinet

PR 5220/07  
with Ethernet/IP



Dimensions in mm



## Technical data

Weight transmitter PR 5220 – safe recording of precise weight values for silo and vessel scales	
Housing	Housing, pluggable COMBICOM screw terminals, IP30 in accordance with DIN 40050
	Installation on 35 mm top hat rails, in accordance with DIN 46277
	RoHS compliant
Dimensions	Version/00 99 × 116 × 45 mm
	Versions /01/04/06/07 99 × 116 × 68 mm
Power supply	24 V <sub>DC</sub> , +/-20%
Power consumption	6 W/8 W (versions /01/04/06/07)
Status display	Status LEDs for operational readiness, communication activity, etc.
Control outputs	Quantity 3, optocoupler isolated, passive, max. 30 V <sub>DC</sub> , max. 30 mA
	Functions Limits, status, weight, etc.
Control inputs	Quantity 3, optocoupler isolated, max. 30 VDC, max. 10 mA
	Functions Zero, tare, etc.
Inputs and outputs	Galvanically isolated from auxiliary power and sensor circuit
Load cell connection	All strain gauge load cells; 6 or 4 wire connection possible
Load cell supply	12 V, short-circuit proof, external load cell supply possible
Load impedance	Min. 75 Ω e.g. 6 load cells each with 600 Ω or 4 load cells each with 350 Ω
Measuring principle	Measuring amplifier Delta-Sigma converter
	Measuring time min. 5 ms – max. 1160 ms
Sensitivity (internal)	7.5 nV (appr. 4.8 million div.)
	Usable resolution 0.2 µV/d
Input signal	Measuring signal 0 to 36 mV (for 100% nominal load)
	Linearity < 0.002%
Temperature effect	Zero point TK <sub>0m</sub> < 0.02 µV/K RTI
	Measuring range TK <sub>span</sub> < +/- 2 ppm/K
Digital filter for load cell connection	4th order (low pass), Bessel, aperiodic or Butterworth
Ethernet interface (Functions)	Ethernet TCP/IP and Modbus TCP
	Assignment of an IP address: <ul style="list-style-type: none"> <li>- AutoIP</li> <li>- DHCP server assignment</li> <li>- fixed input of the IP address</li> </ul>
	Automatic detection of signal transmission with corresponding change-over (cross-over or patch cable)
	Web service via SOAP UPnP (Simple Object Access Protocol)
	Synchronous Modbus UDP
Analogue output	0/4 ... 20 mA, Internal resolution 16 bit, Usable step width 0.5 µA Load impedance 500 Ω max. Function freely configurable
Serial interface	Screw terminals for up to 2.5 mm <sup>2</sup> , plug-in, Phoenix/COMBICON system
Ambient conditions temperature	Industrial -10°C to +50°C
	Storage -40°C to +70°C
Packaging dimensions	W 291 × H 331 × D 160 mm
Weight	Version/00 Net: 0.29 kg
	Versions /01/04/06/07 Net: 0.35 kg
Certificates	CE, UL

The technical data given serves as a product description only and should not be understood as guaranteed properties in the legal sense.

Specifications subject to change without notice.

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