

## Gateway

### FEATURES

- Gate 3S significantly reduces overall system costs compared against equipping each weigh system with separate fieldbus interfaces
- Up to 16 units can be connected to GATE 3S
- Can be connected to most existing fieldbuses
- Also indicates the status of the transmission

### DESCRIPTION

GATE 3S is a communication link between local network for transferring weight, force or servo data over external networks (fieldbuses) to PCs or PLCs.

GATE 3S can be connected to most existing fieldbuses. The PROFIBUS-DP, the most widely-used fieldbus, is kept in stock as standard, and other fieldbuses are available as options. Depending on the PLC and fieldbus used, up to 16 units can be connected to GATE 3S.

One of the special features of GATE 3S is its very fast transmission rates. It updates as an example five attached AST 3 units 50 times per second.



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The GATE 3S display is used for set-up and service, and to monitor relevant data such as weights, set values and positions. It also indicates the status of the transmission.

TECHNICAL DATA		PARAMETER	VALUE
<b>MEASUREMENT AND CONTROL PORT</b> GENERATION 3 WEIGHT/FORCE MEASUREMENT AST 3B/P/IS, TAD 3		<b>FIELDBUS INTERFACE</b>	
<b>Fast mapping</b>	6 byte in: commands (zero, tare ...) 6 byte out: weight, weight status Number of units: 1-16* Total transfer time: 4 ms/unit (115 kbaud)**	<b>Example of fieldbuses that can be used</b>	Profibus-DP (standard) DeviceNet Ethernet, Modbus-TCP ControlNet INTERBUS CANopen
<b>General mapping</b>	20 byte in: commands (zero, tare ...), setpoints, write to any register 20 byte out: weight, status info, read from any register Number of units: 1-16* Total transfer time: 6 ms/unit (115 kbaud)**	<b>ENVIRONMENTAL</b>	
<b>Weight transmitter E-2-WEI Mapping</b>	20 byte in: commands (zero, tare ...), setpoints 20 byte out: weight, status info Number of units: 1-16* Total transfer time: 60 ms/unit (9.6 kbaud)**	<b>Temperature range</b>	-10°C to +50°C
<b>POSITIONING SERVO UNIT MICROPOS</b>		<b>CE conformity</b>	EMC, industrial for process control
<b>Mapping</b>	6 byte in: setpoint positions 6 byte out: feedback positions, status (in position ...) Number of units: 1-16* Total transfer time: 10 ms/unit (115 kbaud)**	<b>POWER SUPPLY</b>	
		<b>Supply voltage</b>	24 VDC ±20%, 4 W
		<b>MECHANICAL DATA</b>	
		<b>Dimensions</b>	75×100×110 mm
		<b>Mounting rail</b>	DIN 46277 or DIN EN 50022 (35 mm)
		<b>Dust/moist</b>	IP20
		<b>FRONT PANEL</b>	
		<b>Display</b>	2×16 character LCD display
		<b>Keys</b>	4 keys for control and set-up

\* Max number of units can be lower for some fieldbuses.

\*\* Transfer in the fieldbus is not included in above transfer time data. These times are normally shorter, but depend on the fieldbus configuration and speed.



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