

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
MEASUREMENT AND CONTROL PORT GENERATION 3 WEIGHT/FORCE MEASUREMENT AST 3B/P/IS, TAD 3		FIELDBUS INTERFACE	
Fast mapping	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)**	Example of fieldbuses that can be used	Profibus-DP (standard) DeviceNet Ethernet, Modbus-TCP ControlNet INTERBUS CANopen
General mapping		ENVIRONMENTAL	
	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)**	Temperature range	-10°C to +50°C
Weight transmitter E-2-WEI Mapping		CE conformity	EMC, industrial for process control
	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)**	POWER SUPPLY	
POSITIONING SERVO UNIT MICROPOS		Supply voltage	24 VDC ±20%, 4 W
Mapping	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)**	MECHANICAL DATA	
		Dimensions	75×100×110 mm
		Mounting rail	DIN 46277 or DIN EN 50022 (35 mm)
		Dust/moist	IP20
		FRONT PANEL	
		Display	2×16 character LCD display
		Keys	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.