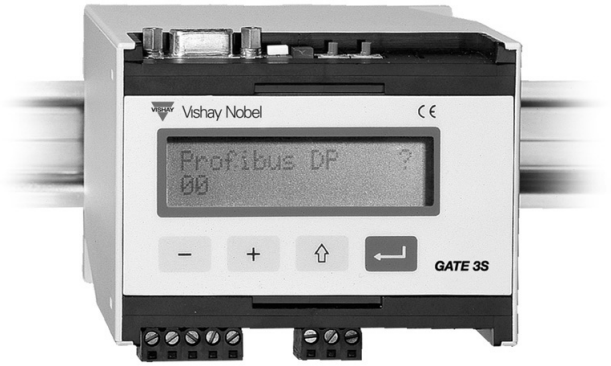
Gateway



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

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.

GATE 3S significantly reduces overall system costs compared against equipping each weigh system with separate fieldbus interfaces.
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

MEASUREMENT AND CONTROL PORT

Generation 3 weight/force measurement AST 3B/P/IS, TAD 3

Fast mapping

6 byte in: commands (zero, tare...)

6 byte out: weight, weight status

Number of units: 1-16*

Total transfer time: 4ms/unit (115 kBaud)**

General mapping

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: 6ms/unit (115 kBand)**

Weight transmitter E-2-WEI

Mapping

20 byte in: commands (zero, tare...), setpoints

20 byte out: weight, status info

Number of units: 1-16*

Total transfer time: 60ms/unit (9.6 kbaud)**

Positioning servo unit microPOS

Mapping

6 byte in: setpoint positions

6 byte out: feedback positions, status (in position...)

Number of units: 1-16*

Total transfer time: 10ms/unit (115 kbaud)**

FIELDBUS INTERFACE

Example of fieldbuses that can be used

Profibus-DP (standard)

DeviceNet

Ethernet, Modbus-TCP

ControlNet

INTERBUS

Modbus Plus

CANopen

ENVIRONMENTAL

Temperature range	- 10°C to + 50°C
CE conformity	EMC, industrial for process control

POWER SUPPLY

Supply voltage	24VDC ± 20%, 4W

MECHANICAL DATA

Dimensions	75 x 100 x 110mm
Mounting rail	DIN 46277 or DIN EN 50022 (35mm)
Dust/moist	IP 20

FRONT PANEL

Display	2 x 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.

POSSIBILITIES

The Gate 3S Possibilities drawing will go here

Disclaimer

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