

▶ G 5–PM

- High-resolution process control instrument
- Wide variety of interfaces:
USB, Ethernet, fieldbus, RS 485, analog
- Set-up and diagnostics through
embedded web server
- Easy parameter backup restoration
via USB-port or SD-card
- Large colour display
- Suitable for legal-for-trade applications
according to OIML R76 approval



DESCRIPTION:

The G5–PM is a high performance static control unit with OIML R76 approval and is useable in a lot of industrial weighing and force measurements. The control unit has a very high-resolution and high-sampling rate. It is ideally for high precise weighing applications.

Furthermore, the G5–PM is characterized by a numerous possibilities for communication with higher controls. The G5–PM offers an analog output, an USB port, a SD-card, Ethernet and RS 485 interface as well as a built-in web server. Other fieldbus interfaces such as Profibus DP, DeviceNet and ControlNet are available optional.

A built-in web server facilitates quick and easy operation and simplifies parameter changes through any web-supporting device. Installations, backups and restore are easy executed via the USB port.

Typical applications for the G5-PM:

- Precise process weighing and control - also legal-for-trade
- Force measurements
- Factory automations
- High speed dynamic measurements.

FUNCTIONING:

The G5-PM offers:

- Connection up to 8 load cells á 350 Ω
- Powerful 24 Bit A/D conversion – 2400 SPS (samples per second)
- Large LCD colour display with LED-backlighting
- Easy to use selection via menu navigation, numerical keys and function keys
- Interfaces:
 - Analog output (power/ force)
 - Digital inputs and outputs, customer-specifically
 - USB (PC or memory stick)
 - Ethernet (Modbus/TCP)
 - Fieldbus interfaces optionally (Profibus DP, DeviceNet, ControlNet)
 - RS 485 and RS 232 (Modbus RTU)
 - SD-card for software updates
- Robust plastic enclosure for panel-mounting
- Protection IP 65 (front)
- OIML R76 approval

TECHNICAL DATA:

G5-PM

Power

DC supply module: 18-32 V DC, 12 W
AC supply module: 115-230 V AC, 50-60 Hz, 14 W

Environmental conditions

Operating temperature: -10°C to +55°C

Display/ Keyboard

Type: TFT LCD colour display, 4.3" (480 x 272 pixel), with LED backlighting, multiline, alphanumeric
Keyboard: 31 keys with mechanical pressure point, numerical and functional keys

Input control unit

Supply control unit: 10 V DC, stabilized, short-circuit-proof
Max load: 30 mA (up to 8 load cells á 350 Ω)
Sensitivity: 0.3 μV
A/D conversion: 24 BIT / 2,400 samples per second
Update rate: 300 updates per second
Filter: 0.125 Hz to 50 Hz bandwidth, damping > 70 dB at 150 Hz

Analog output

Voltage mode: 0-10 V DC, ±10 V, (1 kΩ min. load, isolated)
Current loop mode: 0-20 mA or 4-20 mA or ± 20 mA (500 Ω max. load, isolated)

Interfaces

Ethernet: Process data and control, set-up and file transfer
Modbus TCP, Ethernet/IP (optionally), http, ftp
USB: For parameters backup and restore, type 2
SD-card-slot: For files and program upgrades
Fieldbus (optionally): For process data and control
ProfibusDP, DeviceNet, ControlNet

Serial interfaces:

RS 485: isolated, for process data and control
Protocol: Modbus RTU
Baud rate: up to 115 kBaud

Digital interfaces

Digital inputs: 4 pcs., 24 V DC, isolated
Digital outputs: 4 pcs., 24 V DC, 0.1 A max., isolated

Calibration:

Process **via menu or software**
Data sheet or standard weight and mV signal

Saved data during power failure:

automatical data backup

Enclosure

Dimensions: 230 x 128 x 120 mm (WxHxD) – without terminal blocks
Installation: Built-in type for installations in housing
Material: ABS plastic
Protection: IP 65 (front), IP 20 (back)
Weight: ca. 500 g
Connections: via terminal blocks or screw connections

Approval:

CE; UL and FM projected
OIML R76