



# Kontrols & Industrial Weighing

## X1 Digital Process Indicator



- Full Digital Signal Processing with a resolution of 7,500 div.
- Direct calibration and configuration via front keys
- Self-testing functions
- LED display , 6 digits, 7 segments
- Serial RS232 built in
- Supply voltage 230 V
- Protection class of front IP 65
- Option:
  - analog output 0/4Ö 20 mA
  - 2 relais outputs for limit control
  - serial interface RS485

### Product Profile

The X1 process indicator is particularly suited for industrial weighing applications such as platforms, silos and weighbridges.

Operating is made via front panel. The X1 process indicator is available in a robust aluminium housing for front panel mounting.

Utmost interference suppression and longterm stability guarantees optimum use in harshest environments.

### Specific Features

- Easy and comfortable operation, calibration and configuration routines
- Calibration without weights (input of load cell identification data)
- Automatic zero tracking
- HW options extendable later on

The red LED weight display with 15mm characters allows a good readability even under difficult Conditions.

The Sense-amplifier supports 4 and also 6 wire Load Cells. This allows connections over long distances without losing accuracy.

### Printout

The printout can be configured.

The following values are available:

- Gross weight
- Net weight
- Tare weight
- Date and time
- Sequence number
- Indicator adress

### Input signal filter

Intelligent first order low pass filter to suppress unwanted signal deviation caused by external disturbances. Adjustable time constant and tolerance band. Signal changes that exceed the set tolerance band will by-pass the filter directly for speedy response.

## Technical Data

### Load cell supply

8,5 VDC +/- 10%,  
Strain gauge technology,  
6 or 4-conductor connection  
75 Ohm max. load  
=> max. 4 Load cells 350 Ohm each

### Resolution:

7,500 Divisions  
Not W&M approved  
Min. measuring signal: 1.5 µV/d  
Measuring time : 50 ms

### Display

The LED Display allow the indication of the weight and the full operation of the instrument.  
Status LEDs inform about the system status and weight unit.

### Standard RS-232 Interface

For the connection of a printer or a remote display  
Connector:  
9-contact D-Sub female

### Options:

#### PR5301/04

#### Serial I/O and Analog Output

2 Connectors:  
9-contact D-Sub female

#### Serial I/O:

Type: RS-485 full duplex  
Remote Display protocol

#### Analog output:

Output: Gross weight  
Range: 0/4Ö20mA, configurable  
Resolution: 16 bits

#### PR5301/15 Relay Output Card

Connector:  
7-contact plug-in screw terminals  
Number of relays: 2  
Type: Change-over contact, electrical isolated for max. 2.5 mm\  
Contact load:  
0.5 A @ 24 VAC  
0.5 A @ 32 VDC  
Function:  
Limits on gross weight

### Power supply

Voltage: 100 V...240 V AC  
50 / 60 Hz, 21 VA

### Circuits

All fully galvanically isolated from input and supply.

### Environmental conditions

#### Temperature

Operation: -10Ö +50` C  
Power-On : > 0 `C  
Storage: -20Ö +70` C  
Humidity: 95 %, no condensation

### Protection class

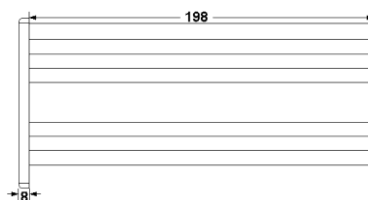
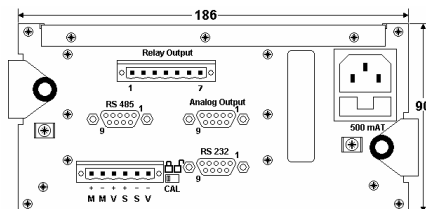
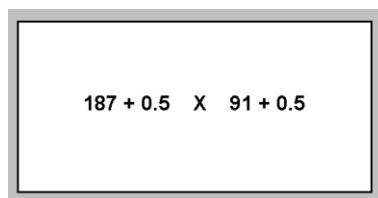
Front: IP65  
Housing: IP30

### Dimensions

Width: 192 mm  
Height: 96 mm  
Depth: 208 mm

### Weight

2.0 kg net  
2.5 kg gross



Dimensions in mm

## Order information

Type	Description	Order number
PR 5301/00	Digital Process Indicator 230 V	9405 153 01001
<b>Options</b>		
PR 5301/04	Serial RS485 and Analog Output 0/4-20mA	9405 353 01041
PR 5301/15	2 Relay Outputs	9405 353 01151

Specifications subject to change without notice.  
Printed in Germany.  
n/sart YC  
9498 753 01001  
Stand 11.2008

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