# Weighing Transmitter WT11

## FEATURES

- Compact and lightweight design
- Easy installation; mounts on DIN rail
- High-performance A/D converter
- Mechanical keyboard with programmable keys
- Supports Fieldbus and analogue output protocols.
- Removable screw terminal blocks
- USB port for firmware update
- Supported with VTW PC Software utility.

## OPTIONS

- Analog output
- Expanded data storage capacity – Alibi memory.
- Multiple Fieldbus options

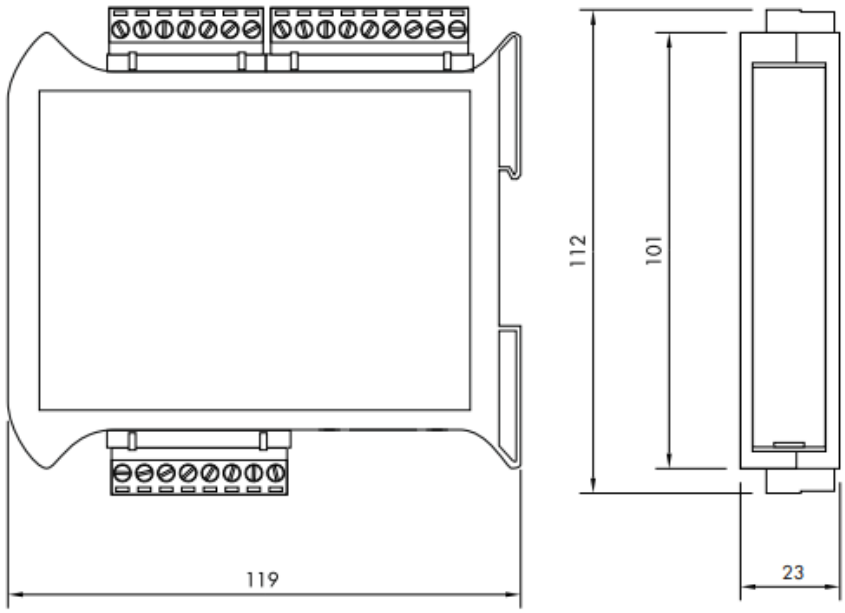
## APPLICATIONS

- Suitable for various industrial systems

## DESCRIPTION

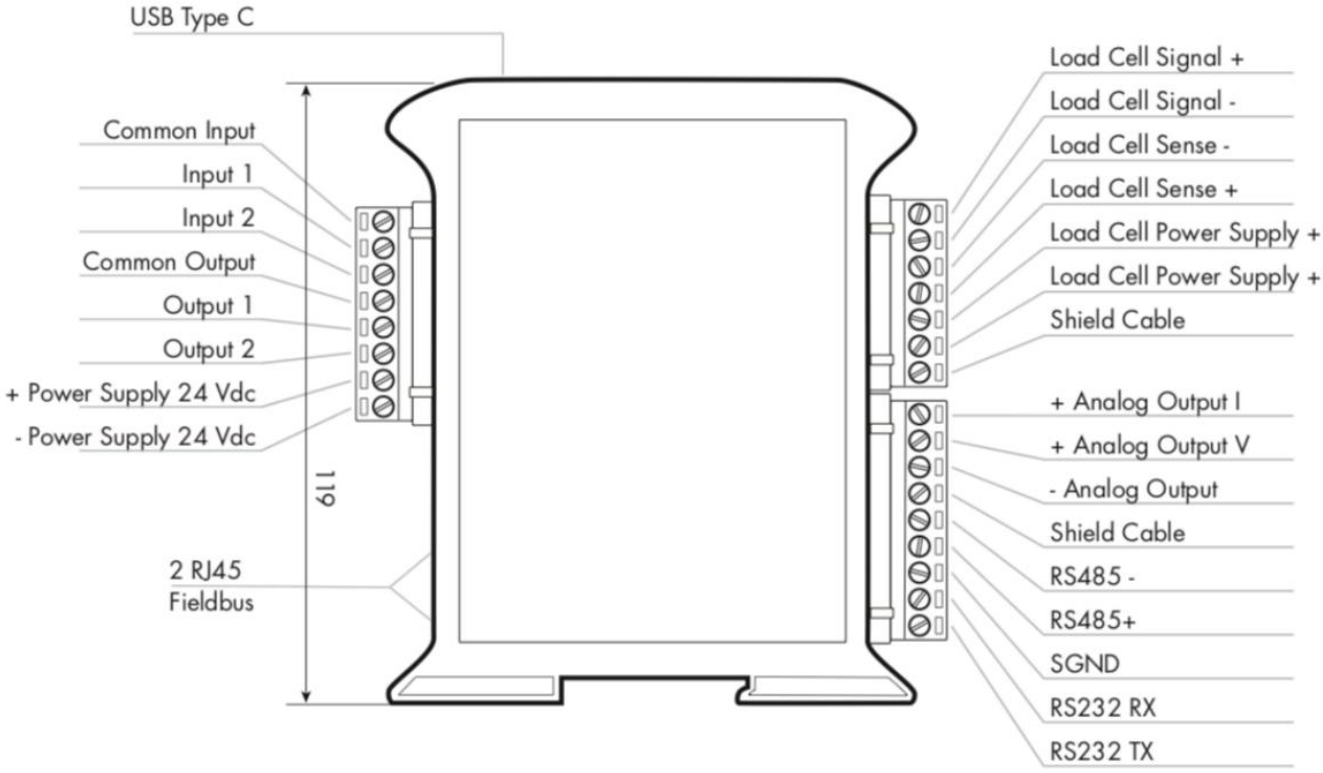
The Model WT11 is a versatile weighing indicator designed for a wide range of applications. It features a user-friendly four-button keyboard for easy configuration and calibration. Standard features include RS232 and RS485 serial ports and a USB device port. The WT11 can be equipped with various fieldbus options and is compatible with most supervision devices on the market.

## OUTLINE DIMENSIONS



Weighing Instrument WT11

## WIRING DIAGRAM





Technical contact: vpgfs.americas@vpgsensors.com, vpgfs.asia@vpgsensors.com, and vpgfs.emea@vpgsensors.com

## SPECIFICATIONS

### PERFORMANCE

Excitation Voltage
4 V

Measuring Range
-7.6 to +7.6 mV/V

Input Sensitivity
0.02 µV/division

Full scale non-Linearity
<0.01% of full scale

Temperature Drift analog output
<0.002% FS/ °C

Gain Drift

0.001% FS/ °C

A/D Converter
24 bit

Maximum Load Cells
4 at 350Ω (or 8 cells of 700 Ω)

Internal Resolution
>di 16,000,000 Points

Visible Resolution (in divisions)
999,999

Divisions Value (Adjustable)
x 1, x 2, x 5, x 10, x 20, x 50

Decimal figures range
0 ÷ 4

Filter (Adjustable)
0.1 to 250 Hz

Microcontroller

ARM Cortex M0 + 32 bit 256KB Flash reprogrammable onboard via USB

Data Storage
32 KB expandable up to 1024 KB (optional)

Serial port
1 USB-C device + 1 RS232C and 1 RS485 with ASCII or Modbus RTU protocol or 1 Fieldbus

### ENVIRONMENTAL

Operating Temperature
-10 to +50 ˚C (max humidity 85% without condensation)

Storage Temperature
-20 to +60 ˚C

### DISPLAY AND KEYBOARD

Display
6 digits, LED 7 segment

Digit Height
8 mm

Keyboard
3 mechanical keys


Technical contact: vpgfs.americas@vpgsensors.com, vpgfs.asia@vpgsensors.com, and vpgfs.emea@vpgsensors.com

# Weighing Instrument WT11

## ELECTRICAL

Power supply
24 ±10% VDC Protected against reverse polarity.

Power consumption

5 W

## INPUT AND LOGICS

Logic Input

2 Opto-Isolated inputs 24 Vdc PNP (external power supply)

Logic Output

2 Opto-Isolated outputs; max 24 Vdc/100 mA each

## ANALOG OUTPUT (OPTIONAL)

Resolution
16 bits

Voltage
0 to ±5/ ±10 V (min 10 KΩ)

Current
0/4 to 20 mA (max 300 Ω)

Linearity
0.03% of FS

Temperature Drift
0.002% of FS/ ˚C

## SERIAL COMMUNICATION

Serial Output #1
1 RS232 half-duplex

Serial Output #2
1 RS485 half-duplex

Serial Output #3
USB device interface

Maximum cable length
15m (RS232) and 1000m (RS485)

Baud Rate
2400 to 115200 (adjustable)

Optional Fieldbus
PROFIBUS DP V1, PROFINET, CANOPEN, ETHERNET
IP, ETHERCAT, ETHERNET

Ethernet Protocols
TCP, Modbus/TCP, UDP, IP, ICMP, ARP. Web server integrated.

## ENCLOSURES

Dimensions
119 x 112 x 23 mm, L x H x D

Mounting
DIN Rail

Electrical Connections
5 mm removal terminal blocks

## REGULATORY COMPLIANCE

EN61000-6-2, EN61000-6-3, EN61326-1 for EMC, EN61010-1 for Electrical Safety

## ORDERING INFORMATION FOR WT11

MODEL - OP1 - OP2 - SPC

**MODEL**
WT11

**OPTION 1**
NOP = NO OPTION
SER= SERIAL
ANA=ANALOG

**OPTION 2**
NOP = NO OPTION
ETH= ETHERNET
ETHI= ETHERNET IP
ETHC= ETHERNET CAT
PRFN= PROFINET
PRFB= PROFIBUS
CANO= CAN OPEN
WEBS= WEBSERVER

**SPECIAL**
LCL = LOAD CELL (mV/V)
COT= 4-20mA (CURRENT)
VOT= 0-10V (VOLTAGE)

Example Completed Part Numbers:
WT11-ETH is the part number for a WT11 with an Ethernet interface.
WT11-ANA is the part number for a WT11 with an analog output.
*This is mandatory: customers must select an output option


Technical contact: vpgfs.americas@vpgsensors.com, vpgfs.asia@vpgsensors.com, and vpgfs.emea@vpgsensors.com


The document and the products described herein are subject to change from time to time without notice and are also subject to specific disclaimers. Please visit https://vpgsensors.com/disclaimer for more information.

All specifications subject to change without notice. For inquiries, please contact the VPG Force Sensors Marketing Department directly using the email address vpgfs.marketing@vpgsensors.com.



The document and the products described herein are subject to change from time to time without notice and are also subject to specific disclaimers. Please visit https://vpgsensors.com/disclaimer for more information.