

VT 400 Vishay Transducers

Weight controller/indicator







FEATURES

- · Inventory and batching control terminal
- High sample rate, up to 70 samples per second
- Up to two serial ports with printing and networking (one standard)
- · Analog output (optional)
- · Two opto-isolated weight setpoints
- · Large 6 digit LED display
- · Alibi (Flash) memory for last 10,000 transactions
- · OIML R-76 and NTEP approved to 10,000d
- Panel mount IP40 enclosure
- Input power 24VDC
- IP54 front panel cover (optional)

DESCRIPTION

VT 400 Weight Controllers provide weighing and control functions for industrial batch/blend/mix process systems.

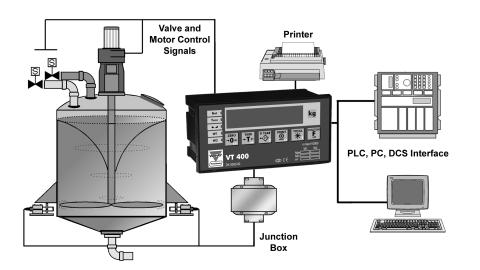
Two opto-isolated control outputs, a choice of up to two serial interfaces (RS-232 and RS-485) and an analog output (optional) allow full communication with higher level PCs or PLCs. Up to 30 units can be interconnected through the RS-485 network.

The standard VT 400 panel mount enclosure is rated IP40. However, it can be upgraded with an IP54 front panel cover (optional).

APPLICATIONS

- · Process weighing
- Batch/blend/mix systems
- · Inventory control

CONFIGURATION



ORDERING INFORMATION

Item Number	Description*
VT400-2100177	RS-232, 24 VDC powered
VT400-2100941	RS-232, analog output (0-20 mA, 4-20 mA, or 0-10V) 24 VDC powered
VT400-2100942	RS-232 and RS-485, 24 VDC powered
VT400-2100943	RS-232 and RS-485 ports, analog output (0-20 mA, 4-20 mA, or 0-10V),24 VDC powered
VT400-2100130	RS-232, external 230VAC/9VDC powered
VT400-2100132	RS-232 and RS-485, analog output (0-20 mA, 4-20 mA, or 0-10V), external 230 VAC/9VDC powered

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Vishay Transducers

Weight Controller/Indicator

VPGTransducers

Celtron • Revere • Sensortronics • Tedea-Huntleigh

SPECIFICATIONS

PERFORMANCE Resolution:

selectable up to 99,000 dd

Conversion Speed:

3 - 70 samples per second (selectable)

Sensitivity:

 $0.4\mu V/Vsi$ for approved scales, $0.1\mu V/Vsi$ for non-approved scales.

Full Scale Range:

-0.25 to 2mV/V [-1.25mV to -10mV] or

-0.25 to 4mV/V [-1.25mV to -20mV]

Linearity:

0.002% of full scale

Long Term Stability:

0.005% of full scale per year +5V alternating polarity or +5VDC

Excitation:

Number of Cells:

(selectable), with sense (6 wires) Up to 10, 350 ohm load cells

Filter:

FIR automatically adjusted to conversion speed, rolling average.

Offset Drift: Span Drift: < 2ppm/°C < 2ppm/°C

A/D Converter Type: Count By: Sigma-Delta, ratiometric x1, x2, x5, x10, x50

Decimal Point: Calibration Methods: between any digits of the weight display dead load and span, or data sheets calibration, via the mV/V output values of the load cell. Calibration of two analog inputs (optional) with

individual coefficients.

Weighing Functions:

automatic zero tracking, motion detection, auto-zero on power-up, zero tare, multiple test functions.

Memory Allocation:

calibration data EEPROM (32kb), Flash tally-roll (Alibi) memory capable of 10,000 weight registrations (64kb)

ENVIRONMENTAL

Operating Temp: $-10 \,^{\circ}\text{C}$ to $+40 \,^{\circ}\text{C}$ [14 $^{\circ}\text{F}$ to $104 \,^{\circ}\text{F}$] Storage Temp: $-10 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ [-4 $^{\circ}\text{F}$ to $158 \,^{\circ}\text{F}$] Relative Humidity: $40-90\% \, \text{RH}$, non-condensing

DISPLAY and KEYBOARD

Display: 6 digit, 7 segment, LED Digital Height: 14 mm [0.55 in.]

Status Enunciators: no motion, zero, tare in use, net, setpoint

in operation

Weight Digits: 4, 5 or 6 (setup selectable)

Keyboard: 6 membrane keys, with tactile feedback

ELECTRICAL

Voltage:24 VDC

Current:500mA

ISOLATED ANALOG OUTPUT (OPTIONAL)

Resolution: 16 bit DAC Voltage Output: 0.02-10V

Current: 0-20mA or 4-20mA

Linearity: 0.01% (or better) of full scale

Thermal Stability: 50ppm/°C typical

INPUTS & OUTPUTS

(x1) Logic Input: 9-24 VDC, positive common,

opto-isolated to 2.5KV.

(x2) Logic Output: 24 VDC ± 10%, positive common, max

current 100mA, opto-isolated to 2.5KV, programmable as weight setpoints

SERIAL COMMUNICATION

Serial Output #1: RS-232, non-programmable Baud Rate: 2400 baud, full duplex

Applications: continuous, print (on demand), alibi print Serial Output #2: RS-232 or RS-485 setup programmable

Baud Rate: 2400 - 57800 baud, half duplex
Applications: EDP and master-slave protocols,
continuous output, remote printer,

weight output

ENCLOSURE

Stainless Steel Enclosure:

Dimensions: 144x72x132 mm LxHxD

[5.7x2.8x5 in. LxHxD]

Mounting: panel mount

Protection: IP40 standard, optional front panel

cover - IP54

Wiring Connections: mini D-type connectors

APPROVALS (ACCURACY CLASS III)

OIML R-76: 10,000d single or dual interval

EU-type approval no. DK0199.62

NTEP: 10,000d single or dual interval

NTEP CC#

Vishay Transducers is continually seeking to improve product quality and performance. Specifications may change accordingly.