

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 approved to 10000d
- Panel mount IP40 enclosure
- IP54 front panel cover (optional)
- Input power 24VDC

APPLICATIONS

- Process weighing
- Inventory control

OPTIONS

- Analog output
- RS-485 port
- Second RS-232 port

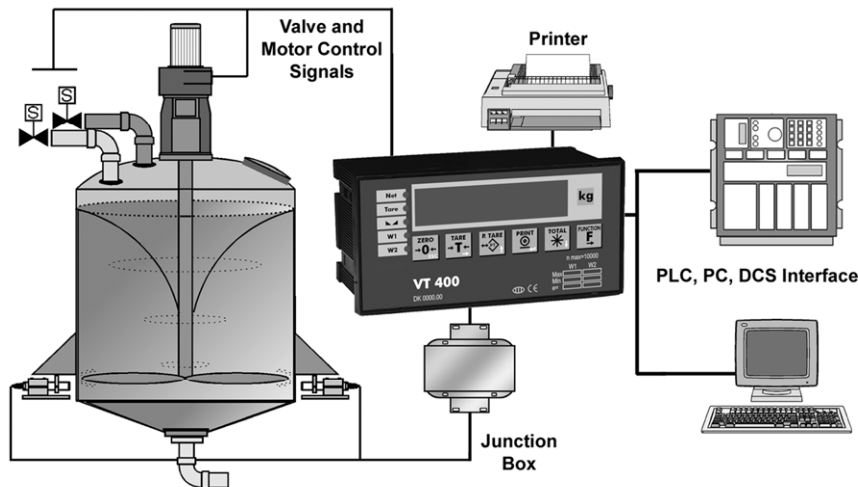
DESCRIPTION

VT 400 Weight Controllers provide weighing and control functions for industrial 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).

CONFIGURATION



SPECIFICATIONS

PERFORMANCE

Resolution: selectable up to 990,000 dd
 Conversion Speed: 3 - 70 samples per second (selectable)
 Sensitivity: 0.4µV/Vsi for approved scales, 0.1µV/Vsi for non-approved scales.
 Full Scale Range: -0.25 to 1.75mV/V [-1.25mV to 8.75mV] or -0.25 to 3.75mV/V [-1.25mV to 18.75mV]
 Linearity: 0.002% of full scale
 Long Term Stability: 0.005% of full scale per year
 Excitation: +5V alternating polarity or +5VDC (selectable), with sense (6 wires)
 Number of Cells: Up to 10, 350 ohm load cells
 Filter: FIR automatically adjusted to conversion speed, rolling average.
 Offset Drift: < 2ppm/°C
 Span Drift: < 2ppm/°C
 A/D Converter Type: Sigma-Delta, ratiometric
 Count By: x1, x2, x5, x10, x50
 Decimal Point: between any digits of the weight display
 Calibration Methods: dead load and span, or data sheets calibration, via the mV/V output values of the load cell.
 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°C to +40°C [14°F to 104°F]
 Storage Temp: -10°C to +70°C [-4°F to 158°F]
 Relative Humidity: 40-90% RH, non-condensing

DISPLAY AND KEYBOARD

Display: 6 digit, 7 segment, LED
 Digital Height: 14mm [0.55in.]
 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: 24VDC
 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: 9-24VDC, negative common, opto-isolated to 2.5KV.
 (x2) Logic Output: 24VDC±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

Heavy duty plastic enclosure:
 Dimensions: 144x72x132mm LxHxD [5.7x2.8x5in. LxHxD]
 Mounting: panel mount
 Protection: IP40 standard, optional front panel cover - IP54
 Wiring Connections: mini D-type connectors

APPROVALS (ACCURACY CLASS III/IIIL)

OIML R-76: 10000d single or dual interval
 EU-type approval no. DK0199.62

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

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