Revere



Weight Controller/Indicator



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).

FEATURES

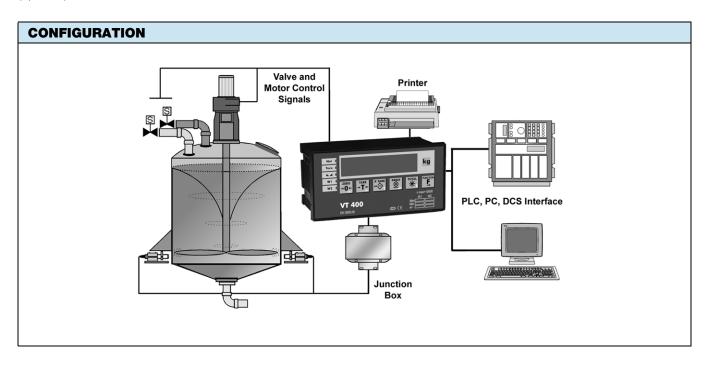
- Inventory and batching control terminal
- High sample rate, up to 70 samples per second
- Up to two serial ports with printing and networking (one standard)
- Analog output (optional)
- Two opto-isolated weight setpoints
- Large 6 digit LED display
- Alibi (Flash) memory for last 10,000 transactions
- 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





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SPECIFICATION	5		
PERFORMANCE		ELECTRICAL	
Resolution:	selectable up to 990,000 dd	Voltage:	24VDC
Conversion Speed:	3 - 70 samples per second (selectable)	Current:	500mA
Sensitivity:	0.4µV/Vsi for approved scales,	ISOLATED ANALOG OUTPUT (OPTIONAL)	
	0.1µV/Vsi for non-approved scales.	Resolution:	16 bit DAC
Full Scale Range:	-0.25 to 1.75mV/V [-1.25mV to 8.75mV] or	Voltage Output:	0.02-10V
	-0.25 to 3.75mV/V [-1.25mV to 18.75mV]	Current:	0-20mA or 4-20mA
Linearity:	0.002% of full scale	Linearity:	0.01% (or better) of full scale
Long Term Stability:	0.005% of full scale per year	Thermal Stability:	50ppm/°C typical
Excitation:	+5V alternating polarity or +5VDC	INPUTS & OUTPUTS	
	(selectable), with sense (6 wires)	(x1) Logic Input:	9-24VDC, negative common,
Number of Cells:	Up to 10, 350 ohm load cells		opto-isolated to 2.5KV.
Filter:	FIR automatically adjusted to	(x2) Logic Output:	24VDC±10%, positive common, max
	conversion speed, rolling average.		current 100mA, opto-isolated to 2.5KV,
Offset Drift:	< 2ppm/°C		programmable as weight setpoints
Span Drift:	< 2ppm/°C	SERIAL COMMUNICATION	
A/D Converter Type:	Sigma-Delta, ratiometric	Serial Output #1:	RS-232, non-programmable
Count By:	x1, x2, x5, x10, x50	Baud Rate:	2400 baud, full duplex
Decimal Point:	between any digits of the weight display	Applications:	continuous, print (on demand), alibi print
Calibration Methods:	dead load and span, or data sheets	Serial Output #2:	RS-232 or RS-485 setup programmable
	calibration, via the mV/V output	Baud Rate:	2400 - 57800 baud, half duplex
	values of the load cell.	Applications:	EDP and master-slave protocols,
Weighing Functions:	automatic zero tracking, motion		continuous output, remote printer,
	detection, auto-zero on power-up,		weight output
	zero tare, multiple test functions.	ENCLOSURE	3
Memory Allocation:	calibration data EEPROM (32kb), Flash	Heavy duty plastic enclosure:	
	tally-roll (Alibi) memory capable of	Dimensions:	144x72x132mm LxHxD
	10,000 weight registrations (64kb)		[5.7x2.8x5in. LxHxD]
ENVIRONMENTAL		Mounting:	panel mount
Operating Temp:	-10°C to +40°C [14°F to 104°F]	Protection:	IP40 standard,
Storage Temp:	-10°C to +70°C [-4°F to 158°F]		optional front panel cover - IP54
Relative Humidity:	40-90% RH, non-condensing	Wiring Connections:	mini D-type connectors
DISPLAY AND KEYBOARD		APPROVALS (ACCURACY CLASS III/IIIL)	
Display:	6 digit, 7 segment, LED	OIML R-76:	10000d single or dual interval
Digital Height:	14mm [0.55in.]		EU-type approval no. DK0199.62
Status Enunciators:	no motion, zero, tare in use, net, setpoint in operation		
Weight Digits:	4, 5 or 6 (setup selectable)	Transducers is continually seeking to improve product quality and	
Keyboard:	6 membrane keys, with tactile feedback	performance. Specifications may change accordingly.	



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