

INTECONT® Opus, measuring system for legal-for-trade belt weighers



- Compact weighing electronics for legal-for-trade belt weighers
- OIML 0,5 / 1 / 2
- Exchange of components without recalibration (VKG)
- Integrated display and control panel
- High operating convenience, automatic calibration programs
- Fieldbus-Interfaces
- 2 Housing variants: VEG, VKG

Application

The INTECONT® Opus is a measuring device especially for legal-for-trade belt weighers.

Equipment

The system is supplied as front-of-panel mounting unit or with stainless steel box for local installation. Operation is via ergonomically styled keyboard organized by operating and service functions. A luminescent, anti-glare two-line display ensures easy reading of results. A Fieldbus connection can be realized by optional PROFIBUS DP-V0, DeviceNet or Ethernet modules. For legal-for-trade registrations an external l.f.t. memory (VEG) or internal l.f.t. memory (VKG) is available.

Function

- According to OIML R50 requirements
- Manual and/or automatic zero setting
- Full feed/dribble feed control for accurate batching
- Permanent storage of parameters
- Storage of calibration parameters in the load cell dongle. No recalibration after exchange of components
- Factory presettings for simple and quick commissioning
- Auto calibration (automatic calibration programs) self-starting taring
- Calibration intervals with output signal
- Pulse counter (value and pulse width set by parameter)
- Status, event, calibration and quantity reports
- Simulation mode for test and learning

Weighing Functions

Depending on mechanical system used, current flow rate is based on belt load and belt speed.
In addition to the comprehensive basic equipment, the following weighing functions are available:

- Accurate belt speed measurement
- Shifting of weighing to point of discharge
- Batching function

Equipment supplied

Designation	Type	Material number
Basic Devices VEG		
Front-of-panel unit	VEG 20620	V060122.B01
Front-of-panel unit with Modbus	VEG 20621	V060123.B01
Front-of-panel unit with Profibus	VEG 20622	V060124.B01
Front-of-panel unit with DeviceNet	VEG 20623	V060125.B01
Front-of-panel unit with Ethernet Modbus/TCP	VEG 20624	V060126.B01
Front-of-panel unit with Ethernet/IP	VEG 20625	V060131.B01
Fieldbus modules for VEG		
Modbus VSS 021V		V029248.B01
Profibus VPB 020		V029249.B01
DeviceNet VCB 020		V025642.B01
Ethernet Modbus/TCP VET 020V		V029250.B01
Ethernet/IP VET 022V		V048759.B01
Basic Devices VKG		
Stainless steel unit	VKG 20760	V040006.B01
Stainless steel unit with Profibus	VKG 20762	V063330.B01
Stainless steel unit with DeviceNet	VKG 20763	V063331.B01
Stainless steel unit with Ethernet/IP (software activation key)	VKG 20765	V063332.B01
Fieldbus modules for VKG		
Profibus VPB 8020		V040033.B01
DeviceNet VCB 8020		V040034.B01
Ethernet/IP software activation key		V040035.B01
Legal-for-Trade Memory		
Legal-for-trade module for VKG	VMM 20407	V0400026.B01
External Legal-for-Trade Memory Memosave		D707452.01
Software		
EasyServe		E144541.01
Large-scale displays		
Large display 5-digit, LED, 55mm digit height	DLZ 055	E909053.01
Large display 5-digit, LED, 111mm digit height	DLZ 111	E909053.02
Large display 5-digit, LCD, 100mm digit height	VLZ 20100	V066611.B01
Large display 6-digit, LCD, 45mm digit height	VLZ 20045	V067304.B01
Transducers FGA		
FGA 30R2		V037006.B02
Set friction wheel and rocker arm		V047813.B01

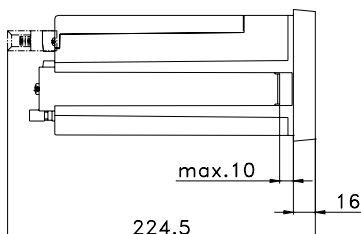
INTECONT® Opus for installation into a control panel VEG 2062x

Display	Fluorescent display, 2 lines with 20 digits, digit height 6 mm
Keyboard	24 keys
Supply voltage	24 VDC +50% / -25%, max. 20 VA
Temperature range	Operating temperature: -40°C to +60°C Storage temperature: -40°C to +80°C
Load cell input	Power supply: 6V AC Load cell impedance: Rmin 80 Ω Cable length: max. 1000m
Housing	Panel mount, front IP65
Binary inputs	5 x Optocoupler 18-36 VDC, typ. 5 mA 2 x NAMUR, 0,04 - 2500 Hz (DIN 19234)
Binary outputs	8 x Relais, max. 230 V 8 A ohm./ 1 A inductive
Pulse output	1 x Optocoupler for the totalizing counter 24 V, 0,1A, max. 10 Hz
Analog outputs	2 x 0(4) - 20 mA, load 500 Ω (beltload, feedrate)
Serial interfaces	Interface 1: EasyServe Interface 2: Printer or MEMOSAVE
Fieldbus (optional)	Selectable: Serial 3964R or Modbus or Large-scale displays, Profibus DP-V0, DeviceNet, Ethernet Modbus/TCP, Ethernet/IP

Wall housing	Wall housing IP 54 380 mm x 300 mm x 263 mm Power supply 120 V - 230 V / 24 V
Power supply, 85 V - 264 V	24 V, 2 A Panel mount unit
Power supply, 85 V - 264 V	24 V, 1,25 A Tabletop device
Impulse counter	6-digit, resettable or non-resettable
Event printer	Printer with serial interface RS 232 and system cable
I.f.t. memory	MEMOSAVE, see data sheet BV-D2078DE
Large-scale displays	Selectable: DLZ055, LED, 55mm; DLZ111, LED, 111mm VLZ20100, LCD, 100mm; VLZ20045, LCD, 45mm

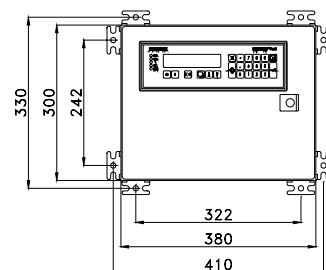
Dimensions (mm)

INTECONT® Opus for installation at a control panel VEG2062x

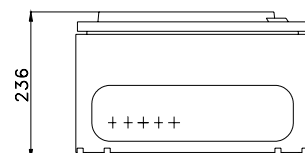


Panel cut-out
282 + 0,5 x 88 + 0,5

Wall housing

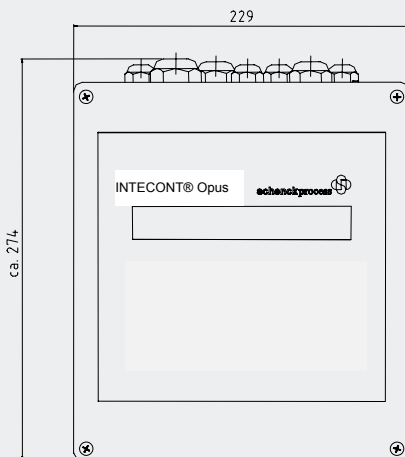
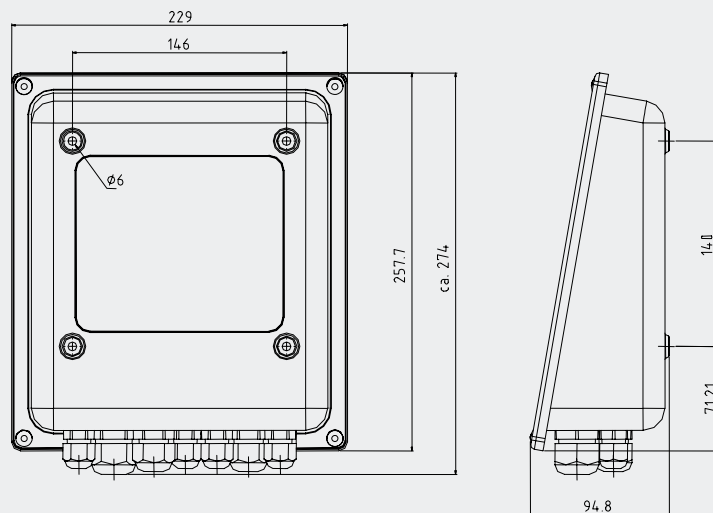


Bottom View



INTECONT® Opus in the Stainless steel housing VKG 2076x

Display	LCD 1 line 20 digits, digit height 12mm, back-lit
Keyboard	24 keys
Supply voltage	85-240 VAC, 50-60Hz, max. 10 VA
Temperature range	Operating temperature: -30°C to +60 °C
Load cell input	Power supply: 5V AC Load cell impedance: Rmin 47 Ω Cable length: max. 1000m
Housing	Stainless steel 1.4301, IP 65
Binary inputs	4x Optocoupler, 18 - 36 VDC, typ. 5 mA 1 x NAMUR, max. 5V, 0,04-3000Hz
Binary outputs	4 x Relais, 230 VAC, 60W max.
Pulse output	Optocoupler, 18 - 36VDC, max. 50 mA/10Hz
Analog output	0(4) - 20 mA, load 500 Ω (beltload, feedrate)
Serial interfaces	Interface 1: EasyServe Interface 2: Printer Interface 3: Modbus or Large-scale displays
Fieldbus	Select: Ethernet Modbus/TCP or optional Profibus DP-V0, DeviceNet, Ethernet/IP
Large-scale displays	Selectable: DLZ055, LED, 55mm; DLZ111, LED, 111mm VLZ20100, LCD, 100mm; VLZ20045, LCD, 45mm
Internal I.f.t. memory	Capacity about 40 000 data sets

Tabletop mounting

Wall mounting


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