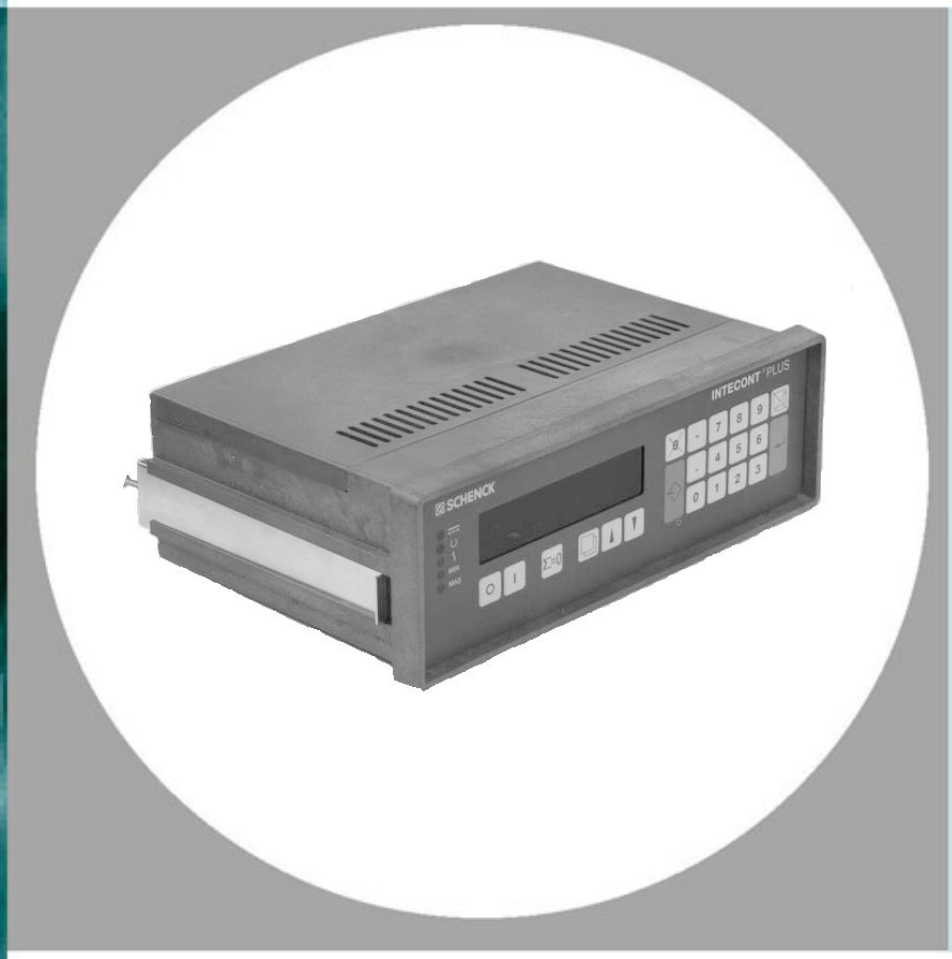
INTECONT PLUS for legal-for-trade belt weighers



- **Compact weighing electronics for legal-for-trade belt weighers**
- **Comprehensive basic functionality with application specific features**
- **Enhanced operating reliability through diagnostics and self-testing functions**
- **Integrated display and control panel**
- **High operating convenience, automatic calibration programs**
- **Serial interfaces; protocols via 3964(R) or MODBUS**
- **Fieldbus connection with PROFIBUS DPV0 or DeviceNet**

Application

The INTECONT PLUS weighing electronics is specially designed for continuous weighing tasks in continuous production processes.

The INTECONT PLUS weighing electronics is primarily designed for applications with a need for convenient and elaborate display, control and monitoring capabilities, in addition to basic measuring functions. The weighing electronics ensures repeatability and transparency of the production process.

Equipment

The system is supplied as front-of-panel mounting unit or with wall-mounting housing 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.
For connection to EDP systems, serial interfaces (3964(R) or MODBUS) are available. Commercial printers can be connected via RS232 interface.

A Fieldbus connection can be realized with an external converter to PROFIBUS DPV0 or DeviceNet.

Operating Principle

- System accuracy for weighing tasks better than 0.05% (DIN EN 61143-1)
- Manual and/or automatic zero setting
- Full feed/dribble feed control for accurate batching
- High electromagnetic compatibility
- Galvanically isolated outputs
- Fail-safe data memory (EEPROM)
- Integrated diagnostics and self-testing Functions (SPC)
- Factory presettings for simple and quick commissioning
- Auto calibration (automatic calibration programs, self-starting taring)
- Calibration intervals with signal output (intervals selectable at will)

- Flow rate pulse (level and pulse width set by parameter)
- Status, event, calibration and quantity reports
- Simulation mode for testing and learning.

Weighing Functions

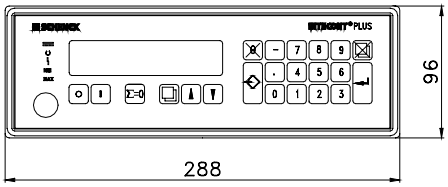
Depending on mechanical system used, current flow rate is through Belt load and belt speed (belt weighers) acquired.

In addition to the comprehensive basic equipment, the following weighing functions are available:

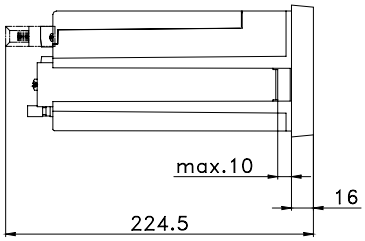
- Accurate belt speed measurement
- Belt influence compensation (BIC)
- Belt run monitoring
- Shifting of weighing to point of discharge

Dimensions (mm)

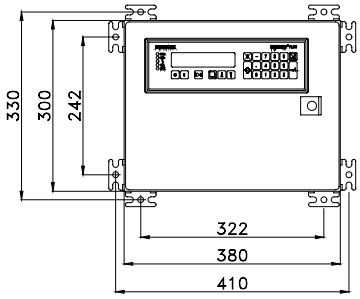
INTECONT PLUS for Front-of-Panel Mounting



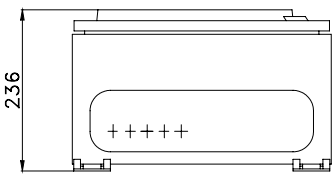
Panel cut-out
282 + 0,5 x 88 + 0,5



INTECONT PLUS Wall Housing Belt Weighers



Bottom View



INTECONT PLUS, FIP 401

Technical Data

Display	Clear text fluorescent display, 2 lines with 20 digits each, 6 mm character height
Power supply	24 VDC +30% / -20% Consumption 20 VA
Ambient conditions	Operating temperature -40° to 45°C Humidity Class F (DIN 40040) EMC (OIML, IEC 801, EN 45501) Spark protection (EN 55011, VDE 871-B) conform to CE regulations
Protection	Front-of-panel mounting housing Front protected to IP 65
Inputs	Speed (RPM) input (NAMUR level 0.04 - 2500 Hz) Load cell input (R min 80 Ω, up to 500 m cable) Release contact (24 V, 5 mA) Measurement (Start/Stop 24 V / 5 mA)
Outputs	2 limit values (230 V 8 A ohm./ 1 A induct.) Faults (230 V 8 A ohm./1 A induct.) Pulse output (totalizing counter 24 V/0,1A, max. 10 Hz) Analog output (flow rate 0/4 ... 20 mA, 500 Ω load) Prefeeder contact (Start/Stop, 230 V, 8 A ohm./ 1 A induct.) Batching (full/dribble feed, 230 V, 8 A ohm./ 1 A induct.) Control unit contact (Start/Stop, 230 V, 8 A ohm./ 1 A induct.)
Interfaces	Printer RS 232 3964(R) interface module (RS422) MODBUS interface module (RS422 or RS485) PROFIBUS DPV0 or DeviceNet with external converter

Options - Technical Datas

Wall housing for belt weighers	Wall housing IP 65 (Nema 4) Power supply 120 ... 230 V / 24 V 380 mm x 300 x 263 mm
Power supply, 85 V ... 264 V	24 V, 2 A panel-mounting unit
Power supply, 85 V ... 264 V	24 V, 1,25 A desk-top unit
Analog display	0 - 100%, panel-mounting unit 4 - 20 mA, 96mm x 24 mm
Pulse counter, non-resettable	6-digit, non-resettable 52 mm x 28 mm
Pulse counter, **resettable**	6-digit, resettable in manual 52 mm x 28 mm
Event printer	9-dot matrix printer with serial interface RS 232 (V 24) and system cable
Legal-for-trade memory	MEMOSAVE, see datasheet BV-D2078GB
S5 interface protocol via 3964(R)	FSP 0010 - program module for Siemens S5 (110U / 115U /135U) for serial interfacing Data are made available in data module. User prerequisite: CP524 or equivalent
S5 interface protocol via MODBUS	FSP 0011 - program module for Siemens S5 (115U / 135U) for serial interfacing Data are made available in data module. User prerequisite: CP524 or equivalent
Special scale/weighing electronics interconnecting cable	Length to be specified in your order (as standard, we supply 20 m)

INTECONT PLUS – Variant
INTECONT PLUS – FIP 401e With 3964(R), MODBUS, PROFIBUS or DeviceNet connection, legal-for-trade, suitable for belt weighers

Options
Wall housing with power supply 120 V ... 230 V for belt weighers and solids flow meters
Wall housing with power supply 120 V ... 230 V, control unit and power switch, for Coriolis mass flow meters
Power supply, 85 V ... 264 V; 24 V, 2 A panel-mounting unit
Power supply, 85 V ... 264 V; 24 V, 1,25 A desk-top unit
Power supply, 115 ... 230 V (control cubicle)
Analog display
Pulse counter, non-resettable
Pulse counter, resettable
Event printer
S5 interface module via 3964(R)
S5 interface module via MODBUS
PROFIBUS DPV0 or DeviceNet with external converter
Special scale/weighing electronics interconnecting cable

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The DÜRR Group

Keep in Motion