

INTECONT® PLUS for Measuring Systems



- Compact weighing electronics for continuous measuring systems
- Integrated display and control panel
- Optimal communication structures thanks to modular fieldbus technology
- EasyServe PC program for convenient commissioning and service
- Enhanced operating reliability through diagnostics and self-testing functions
- High operating convenience, automatic calibration programs
- Optional legal-for-trade variant

Application

The INTECONT® PLUS weighing electronics is specially designed for weighing in continuous production processes. It is the right solution whenever material flows have to be measured and acquired with high accuracy with the use of

- Belt weighers (MULTIBELT®)
- Solids flow meters (MULTISTREAM®)
- Coriolis mass flow meters (MULTICOR®)

This also covers special applications, e.g. legal-for-trade weighing or use in the hazardous area.

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

Equipment

The system is supplied as front panel mounting unit or with wall-mounting housing for local installation. Operation is via ergonomically styled keyboard organised into operating and service functions. A luminescent, anti-glare two-line display ensures easy reading of results.

Equipped with appropriate communication module, INTECONT® PLUS optimally fits into any automated environment.

Operating Principle

Although the INTECONT® PLUS functions vary with every scale type, the basic equipment is always the same.

- System accuracy for weighing tasks better than 0.05%
- Manual and/or automatic zero setting
- Full feed/dribble feed control for accurate batching
- High electromagnetic compatibility
- Galvanically isolated outputs
- Totalizing counter pulses
- Fail-safe data memory (EEPROM)
- Integrated diagnostics and self-testing functions (SPC)
- Default settings for simple and quick commissioning
- Auto calibration (automatic calibration programs, self-starting taring)
- Calibration intervals with signal output (selectable at will)
- Dialog available in German, English, Italian, Spanish and French
- Status, event, calibration and quantity reports
- Simulation mode for testing and learning

Weighing functions

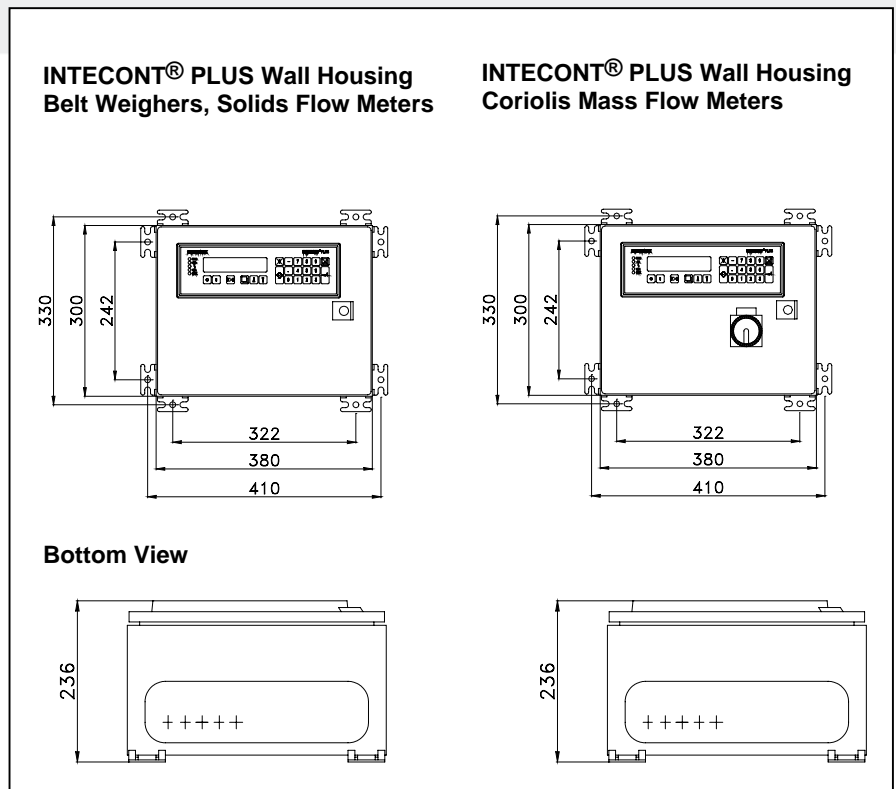
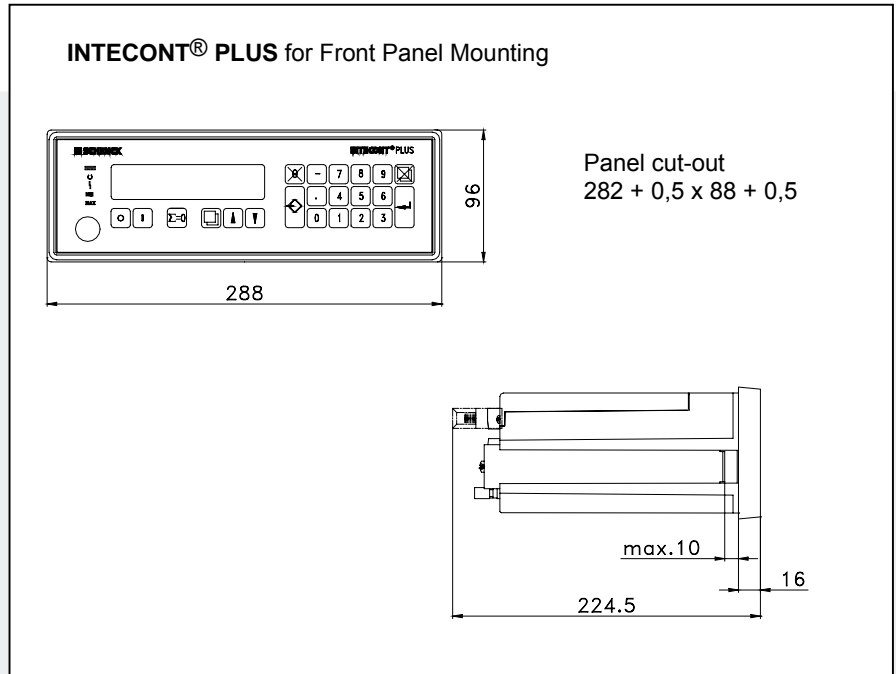
As a function of mechanical system used, the actual feed rate is acquired using:

- Belt load and belt speed (belt weighers)
- Reactive force (solids flow meters)
- Direct mass flow measurement on the Coriolis principle (mass flow meters)

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

- Belt weighers
 - Accurate belt speed measurement
 - Belt influence compensation (BIC)
 - Belt run monitoring
 - Shifting of weighing to point of discharge
 - Legal-for-trade variant (upon request)
- Solids Flow Meters
 - Adaption to varying measuring chute characteristics
- Coriolis Mass Flow Meters
 - Accurate speed and torque acquisition

Dimensions (mm)



Technical Data

Base Unit

Display	Clear text fluorescent display, 2 lines with 20 digits each, 6 mm character height
Power supply	24 VDC +30% / -25% Consumption 20 VA
Ambient conditions	Operating temperature -40° to 60°C EMC (EN 61000, EN61326) conform to CE regulations Legal-for-trade application: Temperature range -10° to +40°C
Protection	Front panel mounting housing Front protected to IP 65
Measuring inputs	Speed (RPM) input (NAMUR level 0.04 - 3000 Hz) Load cell input (R min 80 Ω, up to 1000 m cable) Release contact (24 V, 5 mA) Namur input for belt circuit sensor
Control inputs	3 potential-free digital inputs (24 V, 5 mA)
Outputs	3 relay outputs (max. 230 V, 8 A ohmic load, 1 A inductive load) 1 analog output (potential-free, 0(4)-20 mA, max. 11 V) 1 pulse output for totalizing counter (24 V / 100 mA)
Interfaces	RS 232 for Service PC
Power supply measuring circuit	12 V AC

I / O Expansion (Option)

Control inputs	2 potential-free digital inputs (24 V / 5 mA)
Outputs	5 relay outputs (max. 230 V, 8 A ohmic load, 1 A inductive load) 1 analog output (potential-free, 0(4)-20 mA, max. 11 V)
Interfaces	RS 232 for printer

Communication Modules (Option)

Model	VSS 021 V	Modbus, 3964 R
	VPB 020 V	Profibus DP
	VCB 020 V	Device Net
	VET 020 V	Ethernet MODBUS/TCP
	VET 022 V	Ethernet/IP

Additional Equipment

Wall housing for belt weighers, solids flow meters	Wall housing IP 54 (Nema 4) Power supply 85 .. 264 V / 24 V
Wall housing for Coriolis mass flow meters with control unit and power switch	Wall housing IP 54 (Nema 4) Power supply 85 .. 264 V / 24 V Control unit and power switch
Power supply, 85 ... 264 V	24 V, 2 A, panel-mounting unit
Power supply, 85 ... 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	8-digit 52 mm x 28 mm
Pulse counter, resettable	6-digit 52 mm x 28 mm
Event printer	printer with serial interface RS 232 and system cable
Special measuring cable	Indicate length in your order
Legal-for-trade memory	MEMOSAVE, see Datasheet BV-D 2078GB

INTECONT Variant VEG 206XY

X = 0 : No I/O expansion
= 1 : With I/O expansion

Y = 0 : No communication module
Y = 1 : Communication module Modbus, 3964 R
Y = 2 : Communication module Profibus DP
Y = 3 : Communication module Device Net
Y = 4 : Communication module Ethernet MODBUS/TCP

Options

Wall housing with power supply
for belt weighers and solids flow meters

Wall housing with power supply, control unit and power
switch, for Coriolis mass flow meters

Power supply: desk-top, panel-mounting units

Analog display

Pulse counter, non-resettable

Pulse counter, resettable

Event printer
