

Schenck INTECONT® Tersus

Weighing electronics for continuous weighing systems



Overview

INTECONT Tersus is compact Schenck Process weighing electronics for continuous processes. It acquires and totalises material flow on belt weighers (MULTIBELT®), solids flow meters (MULTISTREAM®) and Coriolis mass flow meters (MULTICOR®), and suits plants that need a clear display, control and monitoring as well as measurement. Ethernet is included in the basic equipment.

Key features

- High-resolution colour display; operator languages selectable and loadable
- Automatic calibration programs, including theoretical span calibration
- Device accuracy better than 0.05 % for weighing tasks
- Ethernet on board; optional fieldbus module in slot X20
- EasyServe PC software for commissioning and service
- Galvanically isolated outputs, fail-safe data memory, self-diagnostics
- Status, event, calibration and quantity reports; simulation mode
- Legal-for-trade version available

Belt weigher functions

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

Installed belt weigher accuracy depends on the complete system, installation and calibration.

Technical data

Display	Colour graphic LCD, adjustable brightness
Keypad	22 keys
Supply voltage	24 V DC +50 % / -25 %, max. 20 VA
Operating temp.	-25 ... +60 °C (legal-for-trade -20 ... +40 °C)
Storage temp.	-40 ... +80 °C
Load cell input	12 V AC excitation, impedance > 80 Ω, cable up to 1000 m
Digital inputs	5 × optocoupler 18–36 V DC; 1 × NAMUR sensor; 1 × NAMUR incremental 0.04–3000 Hz
Relay outputs	8 × relay, max. 230 V, 8 A resistive / 1 A inductive
Pulse output	1 × optocoupler for totaliser, 24 V, 0.1 A, max. 10 Hz
Analog outputs	2 × 0(4)–20 mA, max. 500 Ω, isolated, 14 bit
Analog input	0(4)–20 mA (100 Ω) or 0–10 V (27 kΩ), isolated, 16 bit
Ethernet	10/100BASE, EasyServe and web server
Serial interfaces	RS232 (EasyServe), RS232 (printer), RS232 / RS485
Fieldbus (option)	Modbus, PROFIBUS DP, DeviceNet, EtherNet/IP, PROFINET IO
Housing	Front-of-panel mounting, IP54; IP65 with optional clamp set
EMC	E2 (OIML D11)
Dimensions	Front 297 × 102 mm; cut-out 282 × 88 mm (+0.5); depth 203 mm incl. connectors
Type	VEG 20650