

UTILCELL 1020 BELT

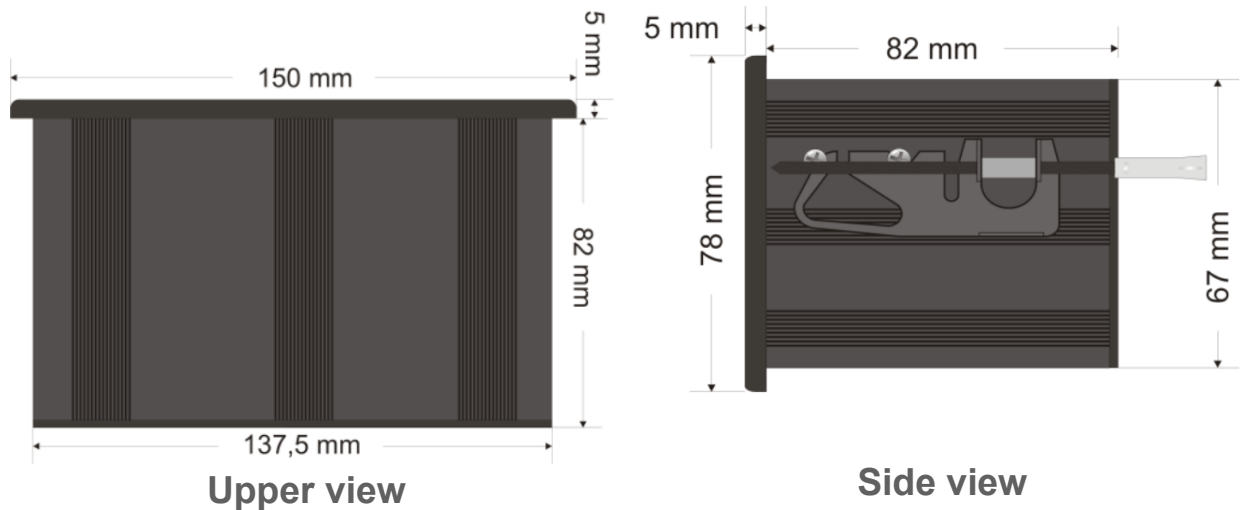
INDICATOR FOR BELT SCALES AND SCREW FEEDERS



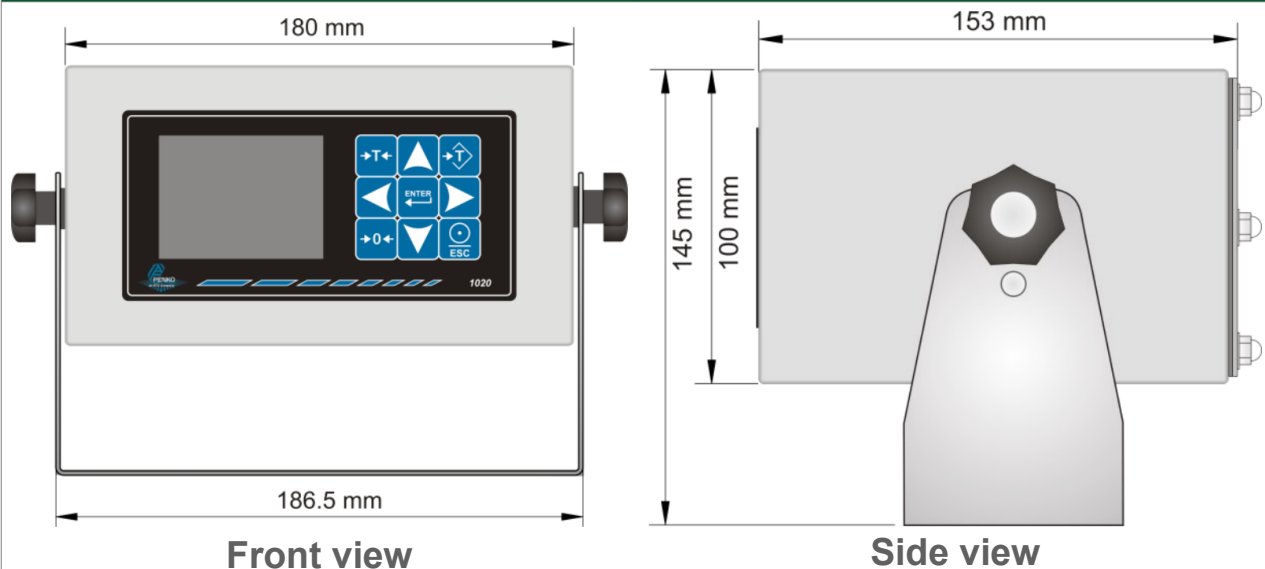
- **LCD display** with high resolution and brightness
- **24 bits** resolution of the A/D converter ,16700000 samples (± 8350000)
- High measurement speed of up to **1600 measurements/s**
- Ready to feed up to **8 load cells 350 Ω** or up to **22 load cells 1000 Ω**
- **3** optically isolated digital inputs
- **4** PNP or NPN digital outputs
- **Optional analog output** with 10.000 divisions and selection of type: 4-20 mA, 0-20 mA, 4-24 mA, 0-24 mA
- Selection of panel mounting or stainless steel cabinet with ingress protection IP65
- Embedded real time module with NiMH battery
- **Measurement of input pulses** from encoder for **detecting belt speed**
- **Regulation of belt speed** via analog output (function „Flow control“)
- **Flow material measurement** as analog output (function „Flow measurement“)
- **Dynamic Tare**
- Setting and displaying of **total to dose and dosed** amount
- Control and displaying of flow of material
- Basic version with **USB** and **Ethernet**
- Other optional ports: RS232, RS422/RS485, CANBUS, PROFIBUS
- Protocol **Ethernet/IP** or **MODBUS** (TCP/IP, RTU)

Mounting dimensions

PANEL MOUNTING VERSION



STAINLESS STEEL CASE IP65



Technical specifications

PARAMETERS OF LOAD CELL INPUT MODULE

Internal divisions	24 bits A/D converter, 16700000 samples (± 8350000)
Speed reading	1600 readings per second
Non-linearity	$< 0.005\%$ from measured value
Temp. effect on zero	$< \pm 2$ ppm / $^{\circ}\text{C}$
Temp. effect on gain	$< \pm 2$ ppm / $^{\circ}\text{C}$
Nominal L/C excitation	5 V _{DC}
Minimal impedance of L/C	43,75 Ω (8 load cells 350 Ω , 22 load cells 1000 Ω)
Maximal impedance of L/C	1200 Ω

USER INTERFACE

TFT LCD Display	320 x 240 pixels, 2,8", high luminosity 200cd/m ²
Keyboard	9 membrane keys

STANDARD COMMUNICATION PORTS

Ethernet	MODBUS TCP/IP, Ethernet/IP
USB	For configuring via PC and uploading firmware

OPTIONAL COMMUNICATION PORTS

RS 232	MODBUS RTU
RS 422 / RS 485	MODBUS RTU
CANBUS	Buslink
PROFIBUS	DP slave

SUPPLY

DC	18 – 32 V _{DC} , nominal 24V _{DC} , max. consumption 7,5W
-----------	---

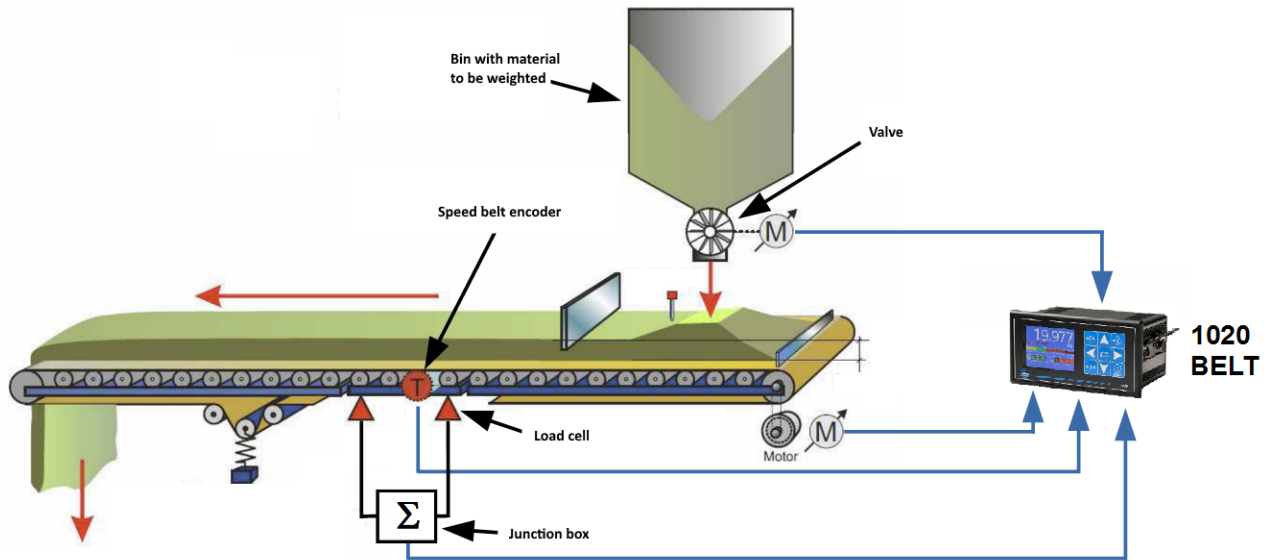
SELECTION OF INPUTS/OUTPUTS

3 digital inputs	Opto-isolated, 1 COM, 18-36 V _{DC} , selection PNP or NPN
4 digital outputs	PNP or NPN, 1 COM, max. 36V _{DC} , 0,5A
1 analog output (optional)	16Bit converter 4-20 mA, 0-20 mA 4-24 mA, 0-24 mA

MECHANICAL AND OTHER PARAMETERS

Range of working temp.	from -10°C to 40°C
Limit temp.	from -25°C to 70°C
Dimensions	170 x 75 x 5 mm (front panel) 138,5 x 67 x 90 mm (SS housing)
Weight	0,8 kg (panel version) 2,1 kg (SS housing version)

Example of application



Description of the display

