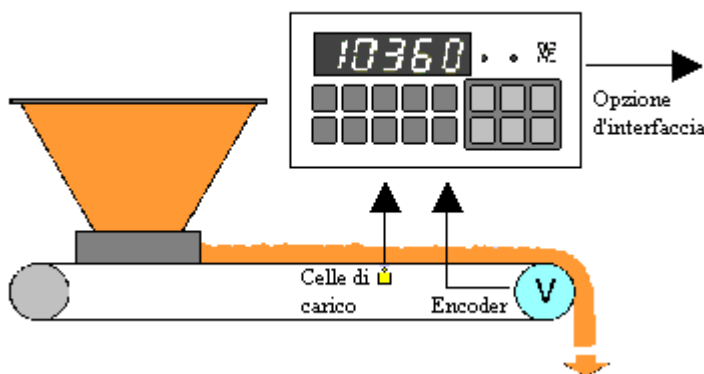# Electronic weighing with load cells

- Automatic calibrations
- Scale zero
- 1 set point and 1 totalizer
- Visualization: flow rate / weight / speed / totalizer / set point
- Hardware Test function for wiring check
- Remote keys for Ex zone (optional)

The manual is available in Italian and in English.

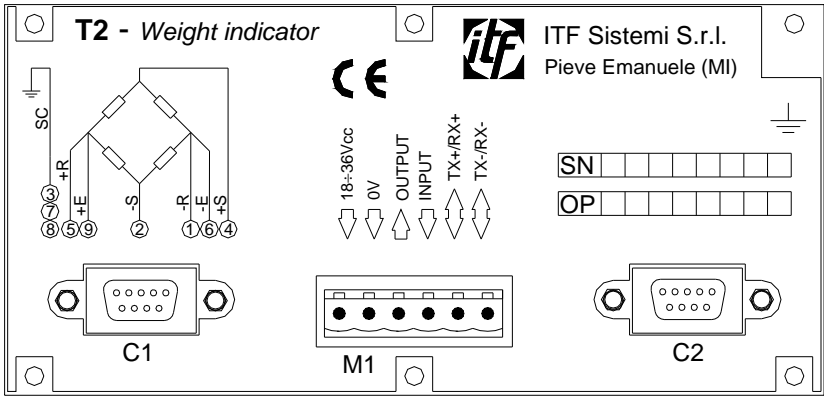| GENERAL TECHNICAL CHARACTERISTICS			
	Description	*Symbol*	*Value*
V/T	DC Power supply	Vi	18 ÷ 36 Vdc 10 W
V/T	Operating temperature	Te	- 10 ÷ + 40 $^\circ$C
Cells	Connectible n° of cells		Max 8 / 350 Ω load cells in parallel
Cells	Connectible n° of cells	E	5 Vdc
Cells	Wiring		4 or 6 wires + shield
ADC	Converter		Sigma Delta 24bit (16.777.216 counts)
ADC	Resolution		100.000 counts
ADC	Accuracy / Linearity		0,01% F.S.
Inp / Out	Analog output		For control or transmission of the flow rate
Inp / Out	RS485 serial		For connection to PC, PLC, display repeater, etc.
Inp / Out	Digital input	I_0	Mechanical switching or PNP transistor for encoder
Inp / Out	Digital output	U_0	PNP open collector transistor
Inp / Out	Housing		Aluminium box - IP 52

TIPICAL APPLICATION

WORKING CICLE

The instrument reads the weight/m and the speed of the belt feeder and calculates the flow rate by the formula
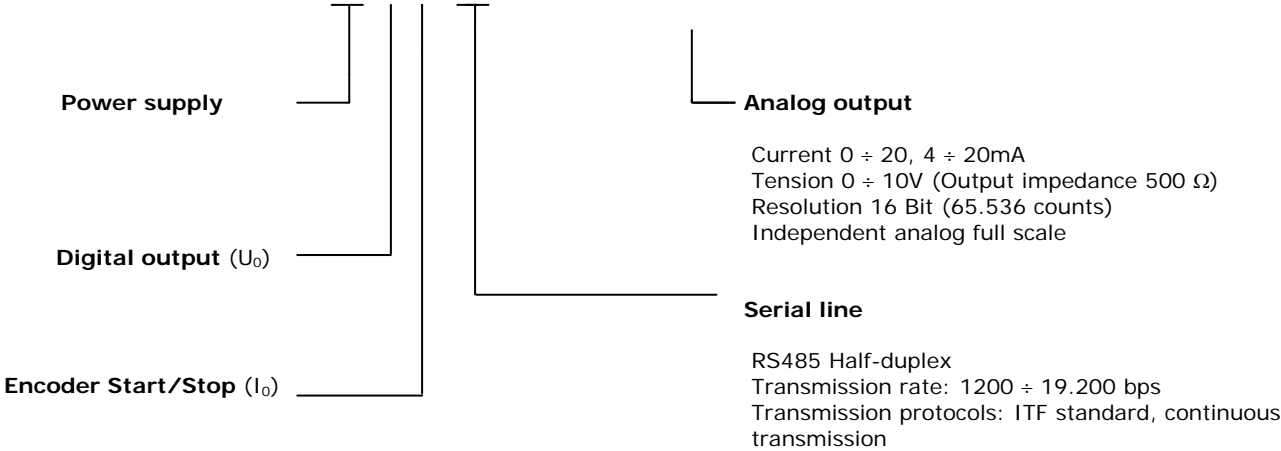
$$Po = weight/m \times speed$$

The P_0 value is continuously compared with the nominal flow rate value set and, according with the calculated difference, the analog output will be modulated for control. The totalizer and the set point are updated. The serial line transmits the data.

T2 - *Weight indicator*

ITF Sistemi S.r.l.
Pieve Emanuele (MI)

SC
+R
+E -S -R -E +S
③⑦⑧⑤⑨ ② ①⑥④

18÷36Vcc 0V OUTPUT INPUT TX+/RX+ TX-/RX-

C1   M1   C2

SN — Serial Number

OP — Installed option code

Power supply

Analog output

Current 0 ÷ 20, 4 ÷ 20mA
Tension 0 ÷ 10V (Output impedance 500 Ω)
Resolution 16 Bit (65.536 counts)
Independent analog full scale

Digital output (U_0)

Serial line

RS485 Half-duplex
Transmission rate: 1200 ÷ 19.200 bps
Transmission protocols: ITF standard, continuous transmission

Encoder Start/Stop (I_0)

DIMENSIONS [mm]

144mm

72mm

L1   L2

| 1 | 2 | 3 | 4 | 5 | P | ○ | M |
| 6 | 7 | 8 | 9 | 0 | F | →0← | C |

T2 Weight Indicator

54mm   9mm

66mm

138mm

T2N_I