



Features

- Flow Rate calculation in Kgs/Hour or Tonnes/Hour.
- Automatic Zero Adjustment.
- Both Resettable and Non-Resettable Totals.
- Adjustable filtering of both weight signal and tacho signal
- Local buttons/display provides access to all data settings.
- Remote access to data and calibration via Profibus DP.
- DIN Rail or wall mount options.

Description

The PR426 Belt Weigher Transmitter connects with 1-4 strain gauge load cells fitted to a belt weigher mechanism from which it generates a calibrated weight signal. It also connects with a proximity switch or shaft encoder, from which it receives pulses in proportion to belt movement. From these two inputs and from calibration and control data held in its system memory it continually calculates the rate of flow of material over the belt and the total quantity of material transferred. Optionally, in applications where belt speed variations are insignificant, the indicator may operate from an internal tacho pulse simulator.

Push-button access to the control and calibration data is pass-number protected.

Technical Data

Model Nos:

PR426P AC powered
Add suffix 'D' for DC
powered option eg PR426P-D

Power Supply:

Universal fused power supply 85-264VAC,
or 10-36VDC (PR426P-D versions only)

Load Cell Excitation:

10V DC @ 125mA max, 1 to 4 x 350
ohm load cells may be connected.

Tacho Input:

Proximity Switch, 3 wire NPN.
Or Shaft Encoder, push-pull output.
Integral 12V DC power supply.
Range 500Hz

Accuracy:

Up to 16,384 +/- 0.5 divisions.
16 bit 1:65,000 internal resolution.

Profibus Connection:

Via a fixed female 9 pin D type connector. A
loose matching male connector is supplied.
The Profibus address is set in EEPROM via
the front panel.

Enclosure:

DIN rail mounting IP30 protection
140mm wide x 128mm high x 60mm
Optional IP66 enclosure
255 x 180 x 75mm

Environment:

Operate 0-50°C, 20-80% RH
non-condensing. Storage -40 to 80°C

Powerful 'System On Chip' technology provides outstanding levels of accuracy and stability combined with drift compensation.

Dead Range Adjustment

A control parameter determines the minimum flow rate below which the unit ceases to totalise.

Auto Zero Adjustment

The internal Dynamic Zero is automatically adjusted by a small amount whenever the unit is running within the Dead Range.



Dynamic Tare Once started, when the belt is running empty, the system automatically totalises the weight both +ve and -ve over the preset number of belt movement pulses. When complete it adjusts the weigher zero accordingly.

Dynamic Calibration Check & Recalibration Once started, a known weight is passed over the weigher, totalising is stopped and the total is observed to make a calibration check. To make a recalibration the known weight is entered.

PROFIBUS MASTER INPUT (from the PR426P)

Byte.Bit	Type	Name
0.0 to 3.7	32 bit floating point	Flow Rate
4.0 to 7.7	32 bit floating point	Resettable Total
8.0 to 11.7	32 bit floating point	Non-Resettable Total
12.0 to 13.7	16 bit integer	Error Code
14.0 to 15.7	16 bit integer	ConfigIndex
16.0 to 19.7	32 bit floating point	ConfigValue

PROFIBUS MASTER OUTPUT (to the PR426P)

Byte.Bit	Type	Name
0.0	Bit	Clear Total
0.1	Bit	Dynamic Tare
0.2	Bit	ConfigWrite
0.3 to 0.7	5 Bits	Unused
1.0 to 2.7	16 bit integer	ConfigIndex
3.0 to 6.7	32 bit floating point	ConfigValue

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