

EnPro

MODEL PI-1 PNEUMATIC CONTROLLER

Introduction.

The EnPro PI-1 Controller has been developed to provide a pulse output signal proportional to a pneumatic input signal i.e. 20 – 100 kPa.

Typical uses are composite sample extraction for pipelines and ship loading and unloading.

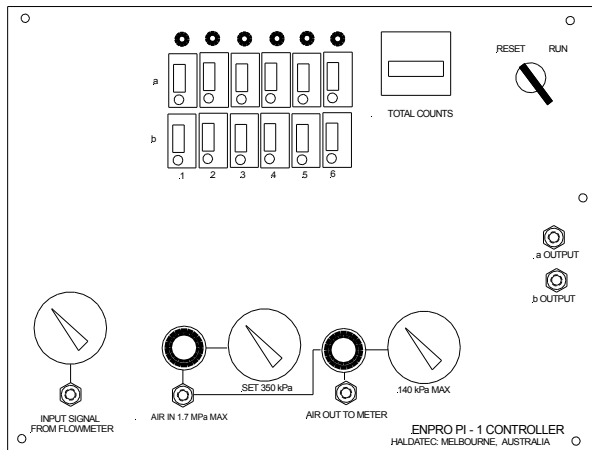
The unit is entirely pneumatic and therefore poses no hazardous area or electrical supply concerns.

A typical set-up would utilise a pneumatic flow sensor/meter coupled with a pneumatic square root extractor. The linearised output signal would then be converted to an adjustable single or double pulse output to drive a sampler motor.

The unit is portable, and available in three or six stage output settings.

Typically the controller would be used in a harsh environment with this in mind it is mounted in a rugged copolymer polypropylene case, with stainless steel pins for the hinges and handles.

To ensure clean air is used a separate filter regulator or with a autodrain is included as a standard item.



PI-1/6 Controller Panel

Operation:

The unit will accept a standard analogue signal from a flow meter and convert it to a three or six stage proportional pneumatic outlet - depending on the controller used.

Before the unit is used it has to be calibrated to give the appropriate pulse out put signal, this is determined by first nominating the maximum pulse output rate for the particular installation. This is a function of the quantity of product to be collected, the grab size and the period of the sample extraction.

Timer Settings

The timers are set using the knob at the base of the sub panel. The time set will be the duration of the output pulse for stroking the sampler motor.

When the timers – timers are paired a,b,c, have been set (instructions are given on the underside of the lid) the unit can be hooked up to the output signal from the flow device and an air supply source.

Pulse rate.

A table for maximum rate setting from 100 to 900 strokes per hour, in increments of 100 strokes per hour, are given in the inside of the lid.



PI-1/3 Controller

Model identification:

PI-1/3 three channels

PI-1/6 six output channels

Specifications:

Maximum air supply: 1.7 MPa

Output pressures: up to 1.7 MPa

Time delay adjustment per channel: 3 - 300 secs.

Counter display: to 999,999

Air supply filter: 40 micron

Portable case: HDR

Repeatability: >1%

Wt: PI-1/3: 8.5 kg

PI-1/6: 10.0 kg

Dimensions: PI-1/3: 485L x 392W x 192H

PI-1/6: 560L x 445W x 265H

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