

# WS/5 FLOWMETER SCALER

The WS/5 converts an unscaled flowmeter pulse into two scaled pulse outputs and an analogue output of 0-1mA or 0-5mA.

## Easy to Use ✓

- Quick and easy to set up
- Preset to your requirements
- Works with all pulsed flowmeters
- Outputs for PLC's, computers etc.

## Highly accurate ✓

- Monitor consumption and flow rates
- Improve your process
- Reduce waste and costs

## High quality manufacture ✓

- High reliability
- Immunity to electrical noise
- ISO 9001 certified manufacturer
- Weatherproof enclosure



## Application

The WS/5 will convert the unscaled pulse from your flowmeter into two scaled pulse outputs suitable for connection to totalisers, PLC's, control systems and computers. The two isolated outputs can be used for separate systems, for example, a local display and a computer input. The analogue output can be used as an economical means of displaying the flow rate on a separate indicator.

## Installation

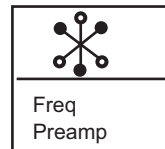
The chemically resistant, weatherproof enclosure allows the instrument to be installed almost anywhere. It can be mounted in a panel or on to a wall via integral holes in the case.

## Instrument Function

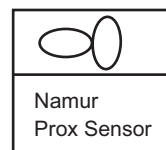
The WS/5 will accept any pulsed signal from a flowmeter and convert it to two scaled pulse outputs and one analogue 0-1mA or 0-5mA signal. The duration of the pulse output can be adjusted to suit your requirements. The WS5 can be supplied with an integral display, either an analogue dial for flowrate indication or an LCD totaliser. The instrument has a DC power supply for sensors.

## INPUT

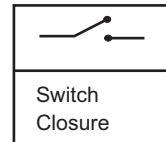
Peltflo  
Turbine



P.D. Flowmeter  
Lowflo



PT

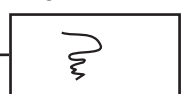


## OUTPUT

Computer

PLC

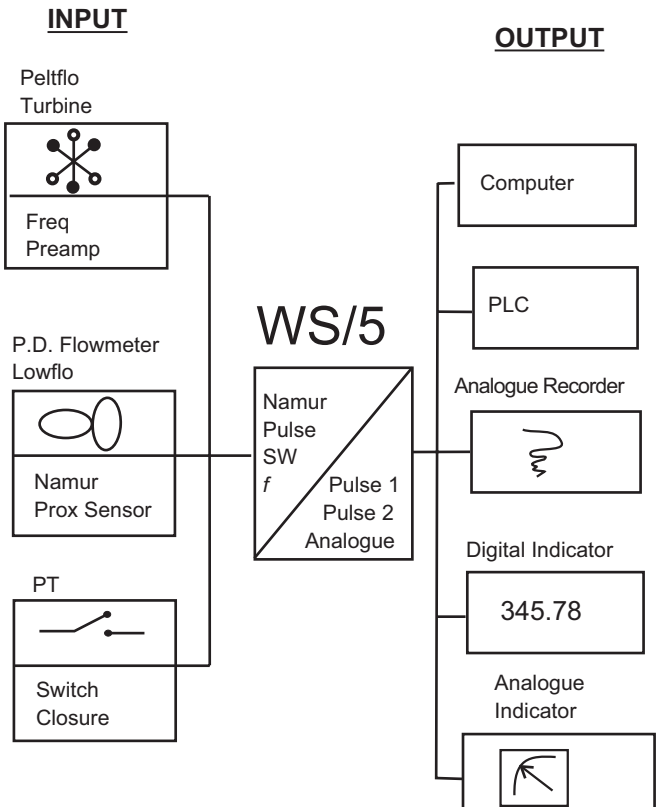
Analogue Recorder



Digital Indicator

345.78

Analogue Indicator



# APOLLO

# Flowmeter Scaler

## Specification

### Construction:

Protection:	IP65
Materials:	Polycarbonate with rubber gasket
Mounting:	Screws via holes in base corners
Weight:	0.7 Kg
Power supply:	110V or 230V a.c. or 12-24V d.c.
Power outputs:	+24V dc unregulated 60 mA or +8.2V d.c. 12 mA and + 5.0 V d.c. 30 mA

Cable connection:	PCB mounted screw terminals
Cable entry:	Weather proof cable gland

**Input signals:** Frequency range 0 to 3kHz

#### 1. Preamplifier:

Sensitivity	low level <8mA high level >11mA
Input max	3.0V 100mA

#### 2. Proximity sensor:

Sensitivity	low level <1mA high level >3mA
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#### 3. Pick-off coil:

Input min.	10 mV RMS at 100HZ 45mV RMS at 3kHz
Input max.	5V RMS

#### 4. Switch closure:

Energising voltage	5V
Energising current	10 mA DC

#### 5. Voltage pulse:

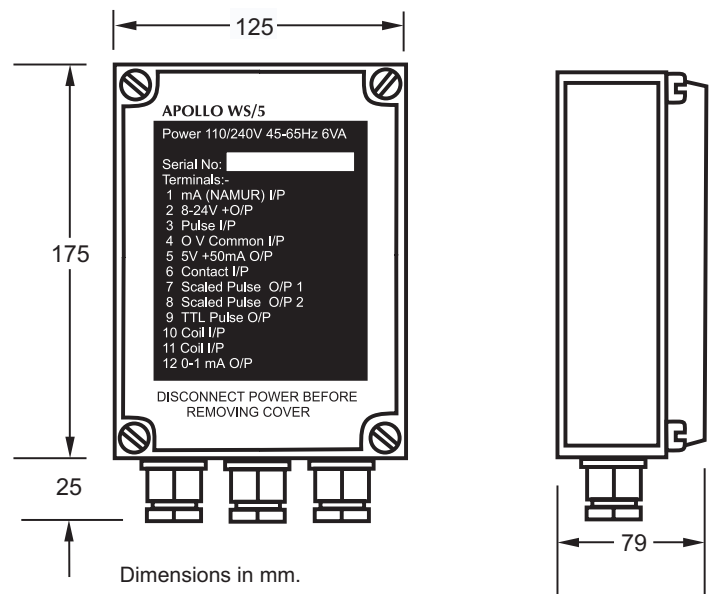
Sensitivity	logic low <1V logic high >2.5V
Input max	40V

### Outputs:

Pulse:	Two open collector transistors
Voltage max.	32 V DC
Load max.	1.0 A 600mW
Pulse duration	30 , 50 or 100 in msec (selectable)
	Other pulse duration's are available
Analogue:	0-1 mA into 5K or 0-5 mA into 1K
Linearity:	+/- 0.5% of reading

### Optional Display:

- 1) 6 digit LCD counter. The reset button can be inhibited so that long term usage can be monitored. Approx. 4 year battery life.
- 2) 96 x 96 mm analogue flow rate indicator. Can be scaled in any flow units e.g. litre/min, Kg/hour



Contact our flow measurement specialists for **FREE** advice on your application

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The expert advice and the calls are **FREE** So call now!

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ISO 9001 Cert. FM 31709