

## INTRODUCTION

The new **HP100** bi-directional solid state Pulse Disc is available for fitting to the existing range of ABB Kent Helix 2000 and 3000 Meters and does not suffer from mechanical failures related to reed switches. Unlike other sensors, the HP100 has built in hysteresis to stop outputting wrong pulses during meter jitter.

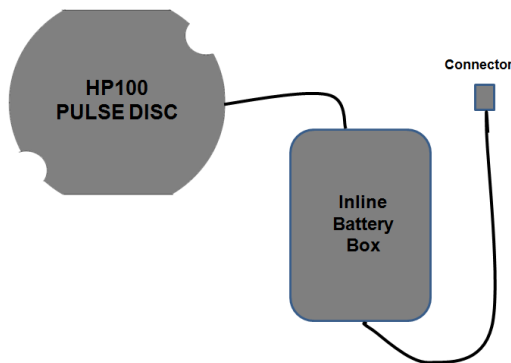
The HP100 uses micro-power and produces **100 pulses per revolution**. Any standard logger can be used, as the HP100 is supplied with an inline battery box offering up to 10 year battery life.

The HP100 Pulse Disc is installed between the meter body and the register unit. The Disc and cable assembly is completely water proof and submersible.

Once installed the solid state HP100 sensor requires no maintenance or calibration adjustments.

The HP100 offers:

- Bi-directional flow signals
- No power required from logger
- Solid state reliability
- Built in self checking



## TYPICAL APPLICATIONS

- *Leakage Monitoring and Control*
- *Zonal District Metering*
- *Process Monitoring*

## ADVANCED DESIGN

- The combination of a versatile data logger and the solid state HP100 flow sensor technology provides a very stable base for Flow measurements in harsh environments.
- The HP100 has no moving parts. Power is supplied from the inline battery box.
- **HP100 has built in hysteresis to stop outputting wrong pulses during meter jitter.**
- The HP100 is robustly constructed and fully sealed to IP68 standards to suit difficult environments in under ground meter pits etc.

## TECHNICAL DATA

<b>Sensor</b>	Solid state construction & fully potted Compatible ABB Kent Helix 2000 and 3000 Meters	
<b>Electronic Details</b>	<b>O/P Signal:</b>	Open Collector
	<b>Collector Current:</b>	10 milliamps Maximum
	<b>O/P Pulse Width:</b>	Typically 16 milliseconds
<b>Connections</b>	<b>Military connector:</b> - to suit data logger Flow input connector. 3 metre (10 ft) cable length overall to Military connector	
<b>Physical</b>	<b>Pulse Disc:</b>	Pulse disc: 81mm Dia, 2.5mm (0.1") thick
	<b>Inline Battery Box</b>	50mm x 40mm x 29mm
	<b>Environment</b>	-20 to +70°C (-5 to +160°F)
		<b>IP68 submersible</b>