

LP10 Pulse Disc

INTRODUCTION

The new LP10 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 LP10 can also detect internal sensor failures and stop outputting wrong pulses.

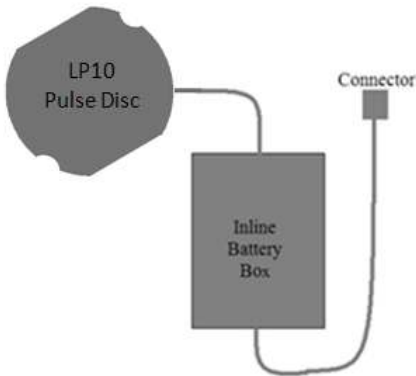
The LP10 uses micro-power and produces 10 pulses per revolution. Any standard logger can be used, as the LP10 is supplied with an inline battery box offering up to 10 year battery life.

The LP10 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 LP10 sensor requires no maintenance or calibration adjustments.

The LP10 offers:

- Bi-directional flow signals
- Very low power consumption
- Solid state reliability
- Built in self checking



TYPICAL APPLICATIONS

- *Leakage Monitoring and Control*
- *Zonal District Metering*
- *Process Monitoring*
- LP10 can be used in process control applications

ADVANCED DESIGN

- The combination of a versatile data logger and the solid state LP10 flow sensor technology provides a very stable base for Flow measurements in harsh environments.
- The LP10 has no moving parts. Power is supplied from the inline battery box.
- **LP10 can detect internal sensor failures and stop outputting wrong pulses.**
- The LP10 is robustly constructed and fully sealed to IP68 standards to suit difficult environments in under around meter pits etc.

TECHNICAL DATA

Sensor	Solid state construction & fully potted Compatible ABB Kent Helix 2000 and 3000 Meters	
Electronic Details	O/P Signal:	Open Collector
	Collector Current:	10 milliamps Maximum
	O/P Pulse Width:	Typically 50 milli seconds
Connections	Military connector: - to suit data logger Flow input connector. 2.5 metre (8 ft) cable length overall to Military connector	
Physical	Pulse Disc:	Pulse disc: 81mm Dia, 2.5mm (0.1") thick
	Inline Battery Box	50mm x 40mm x 29mm
	Environment	-20 to +70°C (-5 to +160°F) IP68 submersible