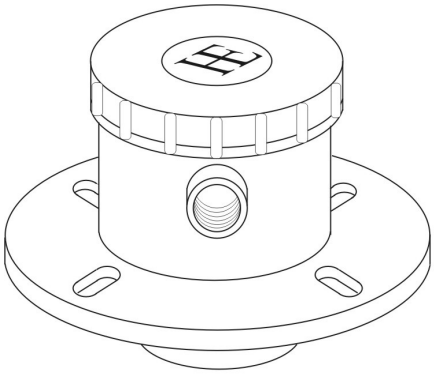
# HAWKER LEVEL CONTROL SYSTEMS

# SONDALOOP Loop Powered Ultrasonic Transmitter for non Contact Level Measurement

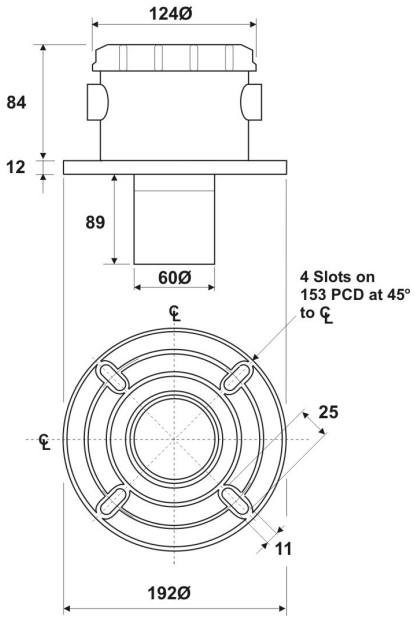
The Sondaloop provides accurate, reliable level measurement for liquids and slurries, it is a powered, ultrasonic transmitter which operates from a 20-38V D.C. voltage, thus enabling the 4-20mA signal produced to transmit over relatively long distances. If 4 control relays, digital indication and a power supply are required use flexilevel2 as a unit to add on (see data sheet No 288). If only 2 relays and a power supply are required use type 900 dual trip amp (see data sheet No 321), or the PS2 power supply with cable monitoring and lost echo (see data sheet No 292).

- Simple setting up procedure saves commissioning time.
- Low power consumption gives economical operation.
- Polypropylene casing for increased chemical resistance.
- Weatherproof to IP66.
- The integral moulded flange accepts ANSI, DIN, BS, sizes.



## Specifications

| | |
|---|---|
| Measuring range: | 0.4 to 10m (Max display reading 9.99) |
| Output: | 4-20mA (into 250ohms @ 24vdc or 850ohms @ 38vdc) (Tolerance ±0.1mA loop, LE ±0.2mA) |
| Loop voltage: | 20-38v dc (reverse polarity protected). |
| Power required: | 0.5 watt @ 24v |
| Resolution: | 1mm (LCD) |
| Accuracy: | 0.25% of measuring range (electronic). |
| Display: | 4 digits |
| Minimum span: | 100mm |
| Lost echo: | User programmable 4, 20, 21mA or last valid reading. |
| Temperature compensation: | Built-in digital sensor. |
| Ultrasonic core angle: | $12^0$ |
| Ultrasound frequency: | 50KHz ±10% |
| Operating temperature: | $-10^0$C to $+60^0$C |
| Weatherproof: | IP66 |
| Gland thread: | M20 |
| Cable: | 2 core screened cable or twisted pair. (5m fitted as standard) |
| Universal flange: | Suitable for: - ANSI 3" 150ib, DN 80 PN16 flush fitting or 4 holes only, BS10 table D 3", Hawker type 81 bracket. |
| Max static operating pressure: | -0.25 to 2bar @ $20^0$C |
| Construction materials: | Casing: - polypropylene (glass filled). Transducer housing: - UPVC |
| Mounting Bracket: | Swing type bracket (see drawing US 0166). |

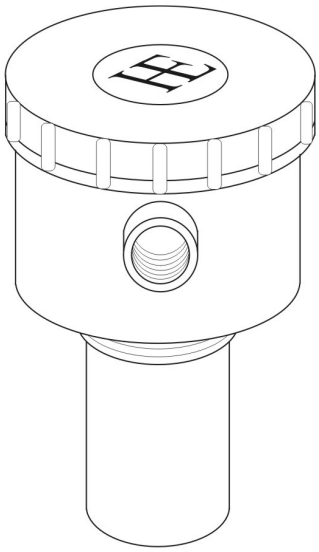


# HAWKER LEVEL CONTROL SYSTEMS

# SONDALOOP2 B.S.P. Loop Powered Ultrasonic Transmitter for non Contact Level Measurement

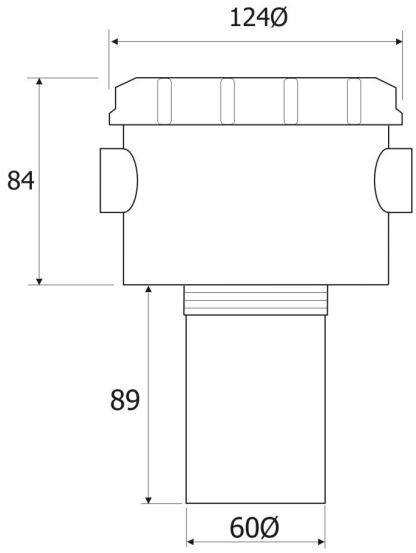
The Sondaloop provides accurate, reliable level measurement for liquids and slurries, it is a powered, ultrasonic transmitter which operates from a 20-38V D.C. voltage, thus enabling the 4-20mA signal produced to transmit over relatively long distances. If 4 control relays, digital indication and a power supply are required use flexilevel2 as a unit to add on (see data sheet No 288). If only 2 relays and a power supply are required use type 900 dual trip amp (see data sheet No 321), or the PS2 power supply with cable monitoring and lost echo (see data sheet No 292).

- Simple setting up procedure saves commissioning time.
- Low power consumption gives economical operation.
- Polypropylene casing for increased chemical resistance.
- Weatherproof to IP66.



## Specifications

| | |
|---|---|
| Measuring range: | 0.4 to 10 m. (Max display reading 9.99) |
| Output: | 4-20mA (into 250 ohms @ 24V D.C. or 850 ohms @ 38V D.C.) (Tolerance ±0.1mA loop, LE ±0.2mA) |
| Loop voltage: | 20-38V D.C. (reverse polarity protected). |
| Power required | 0.5 watt @ 24V |
| Resolution: | 1mm |
| Accuracy: | 0.25% of measuring range (electronic). |
| Display: | 4 digits |
| Minimum span: | 100mm |
| Lost echo: | User programmable 4, 20, 21mA or last valid reading. |
| Temperature compensation: | Built-in digital sensor. |
| Ultrasonic core angle: | $12^0$ |
| Ultrasound frequency: | 50KHz ±10% |
| Operating temperature: | $-10^0$C to $+60^0$C |
| Weatherproof: | IP66 |
| Gland thread: | M20 |
| Cable: | 2 core screened cable or twisted pair. (5m fitted as standard) |
| Connection: | 2" B.S.P. |
| Ultrasonic core angle: | $12^0$ |
| Max static operating pressure: | -0.25 to 2bar @ $20^0$C |
| Construction materials: | Casing: - polypropylene (glass filled). Transducer housing: - UPVC |
| Mounting Bracket: | Swing type bracket (see drawing US 0166). |




*This product has been designed and complies to the relevant standards as listed in its certificate of conformity. The installer/user must ensure compliance.*
*The crossed out bin symbol, placed on the product, reminds you of the need to dispose of the product correctly at the end of its life.*
*Because of continuing development we reserve the right to change the specifications without notice*

***HAWKER ELECTRONICS LTD.***
57 The Avenue,
Rubery Industrial Estate,
Birmingham B45 9AL, ENGLAND
Telephone: +44 (0)121-453-8911 Fax: +44(0)121-453-3777
email: info@hawker-electronics.co.uk www.hawker-electronics.co.uk

*FM 10000*

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