

Control Electronics, Inc.

PDS-360 Ultrasonic Open Channel Flowmeter

Technology For A Demanding future

Features

- * 6 Months of Daily Flow Totals with Flow Summary
- * Time Stamped Data Logging of Average Flow Rate with EVENT List
- * 5 Programmable Relay Outputs
- * 2 Independent 4-20 mA. Outputs
 - * Quick, Easy Setup
 - * Non-Contacting



Control Electronics PDS-360 Series Ultrasonic Open-Channel Flowmeters are non-contacting, highly accurate liquid flow measuring systems. They are microprocessor controlled and will monitor liquid flow through any flume or weir. Applications range from monitoring flow rates in sewage works to industrial waste discharges.

CONTROLLER *Reliable, Accurate, Smart*

Precise flow depth measurements are continuously made under processor control. Ultrasonic sound pulses are transmitted from the sensor and elapsed time of echo return is accurately calculated. This information is converted to a depth-of-flow and is applied to the respective equation for the flow device selected. The built-in equations or user defined equation produce a flow rate and totalized flow .

Proportional analog flow rate signals (4-20 mA.), relay contact closures and RS-232 outputs (opt. USB Port) are available for remote indicating, recording, sampling and process control. Data logging of flow rate and a **6 month summary of Min, Max, Avg flow and totals** are available for downloading and analysis.

All circuits are protected in a NEMA 4X (IP65) fiberglass enclosure with a clear polycarbonate hinged cover for easy viewing of all flow indications.

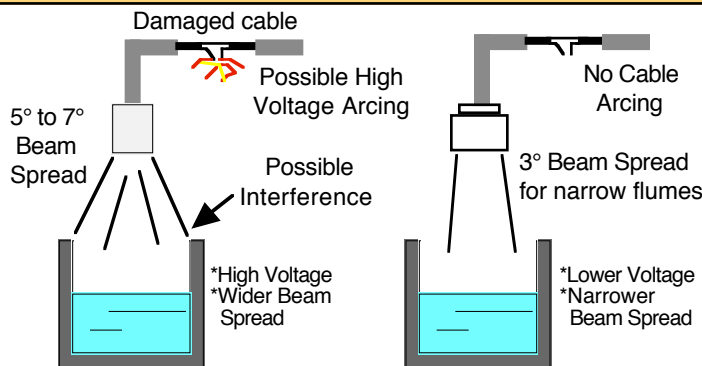
PROGRAMMABLE *Flexible, Cost Effective*

Programming of the flowmeter is accomplished by four pressure sensitive buttons on the front panel. All parameters and flow information are indicated on the menu-driven alpha numeric display. Flow rate indication in PERCENT of scale, GPM, MGD, DEPTH of flow along with accumulated TOTAL gallons, sensor temperature and data logging are all selectable from the front panel.

Programming options in the PDS-360 allow the flowmeter to be extremely flexible in application. Two (2) scalable and independent 4-20 mA. outputs with four (4) control relays with independent ON/OFF settings and one (1) programmable pulse (sampler) relay outputs will satisfy just about any application requirement.

The PDS-360 will measure a Parshall Flume today and easily monitor a Palmer-Bowlus or other flume/weir tomorrow. All programmed data, totalized flow and data logging are password protected and saved in nonvolatile memory in the event of a power failure.

Important Considerations



Competitor Designs **US70TC Sensor Design**

SENSOR *Non-Hazardous, Non-Intrusive*

The Sensor is a non-contacting, non-contaminating Ultrasonic type probe with temperature compensation. Unlike some systems that apply a high voltage (as much as 400 to 1500 volts) to their sensor cable, the PDS-360 sensor (US70TC) requires a pulse of only 50 volts maximum. This means the sensor is non-hazardous, eliminating potential arcing of a faulty cable which could be a threat to personnel or the environment. Installation is fast and easy **using only an inexpensive twisted pair shielded cable**. No stoppage of flow or intrusion into the flow is required. The rugged sensor is housed in solid PVC, requires no maintenance and is considered explosion-proof, corrosion resistant and submersible.

