

Non-Contacting – Accurately Measures Flow Through Flumes and Weirs.

Non-Contacting Sensor:

The UF OC5000 uses a non-contacting ultrasonic sensor mounted over a flume or weir to measure flow. It is accurate, reliable and verifiable. The separate, watertight electronics/display enclosure can be mounted within 150 m (500 ft) of the sensor. The UF OC5000 continuously displays, totalises, transmits and data logs open channel flow.

Keypad Operating System:

Use the built-in keypad for fast, easy calibration with menu selection of flume or weir and measurement units (e.g. gallons, litres etc.). Calibration values and data logs are password-protected and retained during power interruptions. The UF OC5000 will display on-screen flow reports with daily total, minimum, maximum and average flow and will transfer data logs to a USB flash drive. PC software is included.

- Easy to Install and Calibrate Simple, Accurate and Reliable
- Displays, Transmits, Totalises and Data Logs
- Reliable Measurement and Control
- Simple 5-key Calibration
- Password Protected
- 2 million point Data Logger
- On-screen Flow Reports
- USB Output to Flash Drives
- 4-20mA/0-5V Output



Built-in Data Logger Creates Flow Reports Save time and labour—flow information is stored automatically



2-Million Point Data Logger:

The UF OC5000 stores time and date-stamped flow values at programmable intervals of 10 seconds to 60 minutes. Daily flow reports are automatically created and can be viewed right on the instrument's LCD display including total, minimum, maximum and average flow rates.

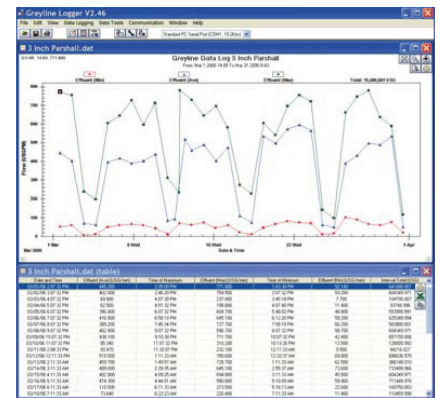
Easy Data Logger Downloads:

You don't need a laptop to retrieve log files! Plug any USB Flash Drive into the UF OC5000 USB output to download data log files automatically. Downloaded files are sequentially named by the flowmeter so log files from the same or multiple instruments can be stored on one flash drive.

Micronics Logger software for Windows:

Micronics Logger is included with each UF OC5000. This powerful software displays data in both graph and table formats. You can view flow data on-screen, generate flow reports and save files to disk. Graphs can be exported as images and data tables can be exported as delimited text files, or directly to Microsoft Excel.

- Display, analyse and export log files in graph and table formats
- Generate flow reports including totaliser, minimum, maximum and average flow rates
- Convert measurement units
- One-click export to Microsoft Excel



Non-Contacting Ultrasonic Sensor:

Each UF OC5000 includes a non-contacting PZ15 sensor designed for the special requirements of open channel flow measurement. The sensor can be installed 203mm (8") or more above the highest water level. The ultrasonic sensor beam is narrow enough to work on very small flumes and powerful enough for really large applications. The UF OC5000 automatically tunes to extended cable lengths up to 150 m (500 ft) lengths.

UF OC5000 Outputs Included:

Connect the UF OC5000's isolated 4-20mA output to external displays, chart recorders or controllers and use the built-in relays for flow/level alarms and flow proportionate pulse to samplers, chlorinators or external totalisers.

Retains Memory during Power Interruptions:

Date, time, calibration data and user settings are stored and retained in back-up battery protected memory. Data log files are in stored Secure Digital (SD) non-volatile memory.

Security:

Access to the UF OC5000 calibration menu and settings are password-protected when enabled.

**PZ15
Ultrasonic
Sensor**



UF OC5000 Specifications

General Specifications

Electronics Enclosure:	Watertight and dust tight NEMA4X (IP66) polycarbonate with clear, shatterproof cover
Accuracy:	$\pm 0.25\%$ of Range or 2 mm (0.08") whichever is greater, Repeatability and Linearity: $\pm 0.1\%$
Display:	White, backlit matrix – displays flow rate, totalizer, relay status, operating mode and calibration menu
Programming:	built-in 5-key calibrator with English, French or Spanish language selection
Power Input:	100–240VAC 50–60Hz (see Options), 4.0 Watts maximum (with standard features)
Output:	Isolated 4–20mA/0–5V, 1000 ohm load maximum, programmable offset
Control Relays:	2 relays form 'C' dry contacts rated 5 amp SPDT; programmable level alarm, pump control, pump alternation, failsafe/echo-loss, air temperature alarm
Electrical Surge Protection:	Sensor, 4–20mA and AC power input
Operating Temp. (electronics):	–20° to 60°C (–5° to 140°F)
Approximate Shipping Weight:	4.5 kg (10 lbs.)

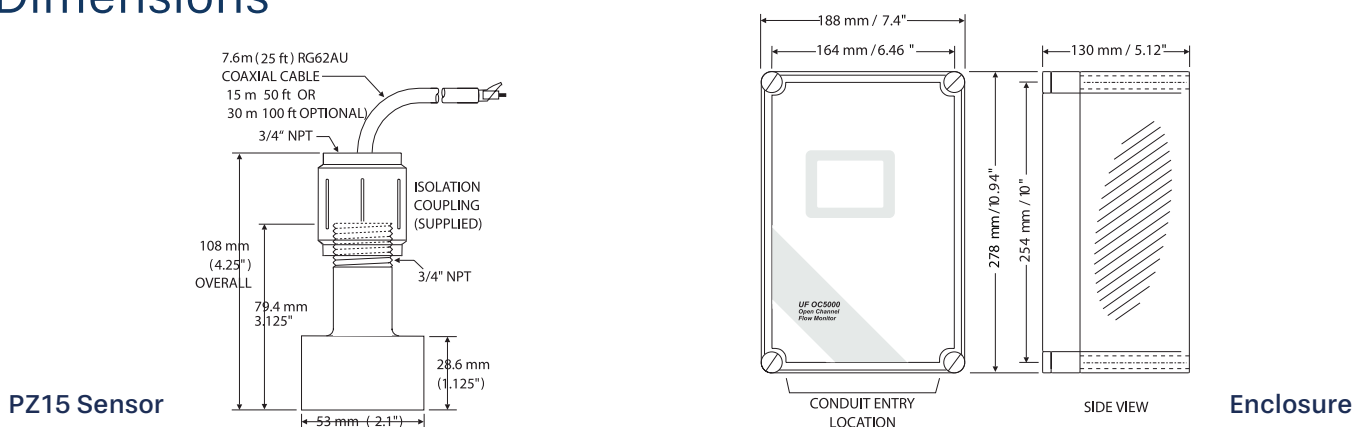
Sensor Specifications

Maximum Range:	4.57 m (15 ft) with standard PZ15 sensor
Deadband (Blanking):	Programmable, Minimum 203.2 mm (8")
Beam Angle:	8°
Operating Frequency:	92 KHz
Exposed Materials:	PVC
Operating Temperature:	–40° to 65°C (–40° to 150°F) with automatic temperature compensation
Submersion Rating:	Protected for accidental submersion to 3 m (10 ft) maximum
Sensor Cable:	RG62AU coaxial, 7.6 m (25 ft) standard length (See Options)

Popular Options

Sensor Cable:	15 m (50 ft) continuous or 30 m (100 ft) continuous RG62AU coaxial from Sensor, or splice up to 150 m (500 ft) with Junction Box
Intrinsic Safety Barriers:	For Sensor mounting in Class I,II,III, Div. I,II, Groups C,D,E,F,G hazardous locations
Power Input:	9–32 VDC
Control Relays:	4 additional (6 total), rated 5 amp SPDT
Enclosure Heater:	Thermostatically controlled – recommended for temperatures below 0°C (32°F)
Sunscreens:	–40° to 65°C (–40° to 150°F) with automatic temperature compensation
Submersion Rating:	Sensor sunscreen and enclosure sunscreen for outdoor installations
Sensor Mounting Stand:	Adjustable, includes galvanized steel pipe, flanges, fittings and hardware

Dimensions



Non-Contacting Ultrasonic UF OC5000 Open Channel Flow Monitor



Programmable for any Flume or Weir:

The UF OC5000 includes a built-in 5-button keypad for fast, easy calibration. Select your choice of engineering units (gallons, litres, cubic meters, etc.) and choose your flume or weir type from the menu. The flowmeter also supports entry of flow formulae for non-standard flumes and weirs. 'Find K&n' software (included) can be used to calculate non-standard calibration constants for entry into the UF OC5000 calibration menu.

Built-in control relays can be programmed for flow alarms or a flow proportionate pulse for remote totalisers, samplers or chlorinators. The isolated 4-20mA (or 0-5V) output can be connected to chart recorders, remote displays and controllers.

Non-Contacting Sensor:

Designed specifically for open channel flow applications, the new PZ15 ultrasonic sensor can be mounted just 20.3 cm (8") above the maximum water level. It is ideal for confined space and small flumes. The PZ15 sensor is rated for measurement distances up to 4.576 m (15 ft).

The PZ15 sensor mounts above the flowing liquid so there is no fouling. No maintenance is required. The sensor will not be damaged by accidental submersion and it self-tunes to extended cable lengths up to 150 m (500 ft).

Recommended for:

- Works with any Flume or Weir
- Built-in Totaliser
- Password protected

Smart Operating System:

The UF OC5000 tracks flow continuously through a flume or weir. False echoes from turbulence, splashing rain or snowfall are automatically rejected. Temperature compensation is automatic for high accuracy. Flow rate and totalizer are shown on the large backlit LCD display.

