

32-WAY PRESSURE DISPLAY UNIT

VDAS[®] FCAI

A 32-way pressure measurement and display unit for use with TecQuipment's FC series flumes (FC300).



KEY POINTS

- Ancillary to TecQuipment's water channels and Advanced Hydrology and Rainfall Apparatus (FC300 and H313V)
- Measures and displays up to 32 pressures from models, Pitot tubes, the flume bed and other devices
- Quicker, easier and more versatile than using liquid manometers
- Integral LCD allows direct pressure measurement
- Measures pressures with respect to atmosphere
- Fully compatible with TecQuipment's Versatile Data Acquisition system (VDAS®) to enable accurate real-time data capture, monitoring and display on a computer



32-WAY PRESSURE DISPLAY UNIT

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DESCRIPTION

The 32-Way Pressure Display Unit is an optional ancillary to TecQuipment's Flow Channel (FC300). It measures and displays up to 32 pressures from models, Pitot tubes and other measuring instruments fitted to a water channel. It is ideally suited to applications where multiple pressure measurements are required, for example in flow over spillways and through sluice gates.

The unit mounts onto the control and instrumentation frame of the (FC300) water channel. Connection to each of the 32 calibrated pressure transducers is via quickrelease pressure inputs mounted on the front panel of the unit. This allows easy and quick connection between the unit and an experiment mounted in a water channel. All pressures are measured with respect to atmosphere.

The unit has an integral liquid crystal display with a scroll switch that allows all 32 channels to be viewed in groups of four at any time.

The conditioned outputs of the pressure sensors, and any other connected compatible electronic instruments, may be output to TecQuipment's Versatile Data Acquisition System (VDAS-FC), available separately to allow computer-based data acquisition and display. Using VDAS[®] enables accurate real-time data capture, display, calculation and charting of all relevant parameters on a suitable computer (computer not included). When the 32-Way Pressure Display Unit is combined with TecQuipment's VDAS®, it allows laboratory time to be used more efficiently compared to recording data manually. The facility in the software to average data to remove the fluctuations inherent in water channel measurements, enhances the quality of the results by making their interpretation much easier. This provides significant experimental advantages over conventional instruments such as manometers.

STANDARD FEATURES

- Supplied with comprehensive user guide
- Five-year warranty
- Made in accordance with the latest European Union directives
- An ISO 9001 certified company

ANCILLARY FOR

- Water Channels (FC300)
- Sluice Gate With Tappings (FC300c)
- Ogee Weir With Tappings (FC300e2)
- Advanced Hydrology and Rainfall Apparatus (H313V)

ESSENTIAL SERVICES

ELECTRICAL SUPPLY:

5 V DC

NOTE: A suitable electrical supply outlet is included in the base of the Water Channel controller or H313V

SPECIFICATION

TecQuipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

DIMENSIONS:

Nett: height 450 mm x width 350 mm x depth 220 mm

Packed: 0.11m³

WEIGHT:

Nett: 10 kg

Packed: 20 kg

PRESSURE SENSORS:

32 pressure transducers calibrated at a maximum of 1200mmH20

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Laboratory

STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

OPERATING TEMPERATURE RANGE:

+5°C to +40°C

OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

