

## Mainstream™ Premier Fixed AV Flowmeter

High performance fixed installation AV flowmeter with extended feature set for complex open channel and part-filled pipe applications.

### Flow Measurement

- Accurate ultrasonic velocity measurement
- Bi-directional velocity measurement ~ 10 mm/s to 5 m/s
- Ultrasound signal quality data for flowmeter condition monitoring
  
- Two level sensor ports suitable for any 4:20 mA device
- Allows two different sensor technologies for measurement reliability
- Supports separate level sensors ranged for flow data and surcharge
  
- Three flow totalisers with separate hourly totals
- Total forward flow and forward flow in last hour
- Total reverse flow and reverse flow in last hour
- Total forward-reverse flow and forward-reverse flow in last hour

### Measurement Outputs

- Large character LCD with back-light for clear measurement display
- Two opto-coupled switch outputs for alarms and sampler control
  
- Three isolated 4:20 mA outputs to transmit measurement data
- Built in isolated 12V power source to drive 4:20 mA signal loop

### Data Logger

- Data logger with capacity to store one year of measurement data
- Logged parameters can include power supply and diagnostic data

## Power Supplies

- Operates from 12-28V DC industrial power supply
- Built in power supply isolation
  
- Low power operation from 12V battery
- Built in conditioner to maintain 12V battery from 12-28V supply
- Automatic un-interruptable operation

## Commissioning

- Simple to set up using Mainstream Communicator software
- Pre-loaded or user defined pipe or channel specifications
- Silt level correction for non-ideal installations
- Built in tools for sensor diagnostics
- Simple configuration of measurement outputs
- Calibration and test features for measurement outputs