

The AM870 High Performance Density Gauge is a non-intrusive, non-contact nuclear density gauge which can accurately measure the density or percentage of solids of a liquid or slurry in a pipe in any application. The AM870 allows accurate process control and optimum productivity in the processing of liquids and slurries.

AM870 High Performance Density Gauge

Density Measurement of Liquids or Slurry



The AM870 utilizes the latest in microprocessor technology, combined with user-friendly, menu-driven software to provide an accurate and easily installed density gauge. The sensitive detector allows smaller sources to be utilized compared to equivalent instruments.

Advantages of the AM870 include:

- Non-intrusive density measurement, suitable for applications containing a high temperature, highly toxic or highly corrosive process
- Microprocessor electronics and highly sensitive detectors ensure reliability and accuracy
- Rugged construction for the harshest of application environments
- Sensitive scintillation detectors ensuring the use of low strength isotopes
- User friendly menu ensures easy set-up and calibration
- Can be used on installed pipes up to 1000 mm (39.37 in)
- Auto source decay compensation.

AM870 High Performance Density Gauge

Detector Assembly

Model	AM771
Detector Type	NaI scintillation detector
Material of Manufacture	Epoxy coated mild steel or optional stainless steel
Ingress Protection Rating	IP66
Mass	25 kg (55.11 lb)
Temperature Rating	0°C to +60°C (+32°F to +140°F)
Cabling Supply	2 pair, overall shielded, 10 meters standard, up to 1000 m maximum

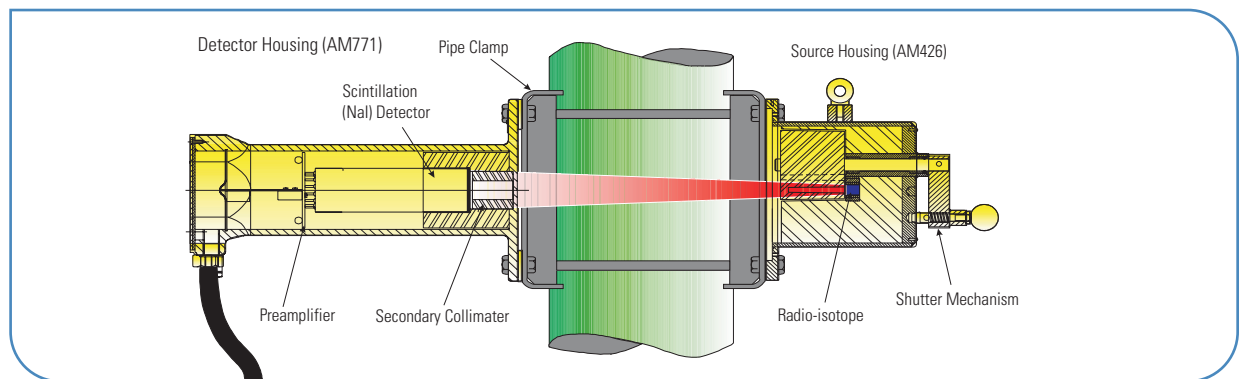
Controller Assembly

Model	AM770
Power Supply	110 to 240 VAC 50-60 Hz Auto Sensing
Circuit Construction	16 bit microprocessor 32K memory Analogue I/O 12 bit resolution 16 character LCD (backlit) LED indicators on all I/O 16 key polycarbonate membrane
Temperature Rating	0°C to +60°C (+32°F to +140°F)
Mass	5 kg (11.02 lb)
Mounting Type	Wall mount
Material of Manufacture	316SS IP66
Outputs	Two 4-20 mA programmable current loops One 4-20 mA current loop input for flow meter One 4-20 mA current loop input for temperature Voltage free contact for remote alarm rated 110 VDC, 125 VAC, 1 amp max Voltage free contact for remote totaliser rated 110 VDC, 125 VAC, 1 amp max
Decay Compensation	Yes
Temperature Stabilization	Yes
Gain Stabilization	Yes
CE Certified	Yes

Source Housing

Model	AM426
Material of Manufacture	Epoxy coated mild steel over lead
Shutter Type	Rotary mechanical
Source Type	Either Cs-137 or Co-60
Mass	45 kg (99.20 lb)
NHMRC Approval	Yes

Cross Section



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