

# Thermo Scientific AM870 High Performance Density Gauge

## Density Measurement of Liquids or Slurry

The Thermo Scientific AM870 High Performance Density Gauge with new DDG3 Controller is a non-intrusive, non-contact nuclear density gauge which can accurately measure the density or percent solids of a liquid or slurry in a pipe for any application. The AM870 allows accurate process control and optimum productivity in the processing of liquids and slurries.



### Industries

- Mining processing
- Petrochemical
- Coal operations
- Food processing
- Pulp and Paper
- Water treatment
- Dredging

### Applications

- Process Control
- Plant mass balance
- Thickener underflow
- Cyclone and spiral feed control
- Concentration determination
- Quality control
- Flotation feed control

### 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 in)
- Auto source decay compensation

Find out more at [thermofisher.com/density](http://thermofisher.com/density)

**ThermoFisher**  
SCIENTIFIC

## Thermo Scientific AM870 High Performance Density Gauge with new DDG3 Controller

### Detector Assembly

Model	AM771
Detector Type	Nal scintillation detector
Material of Manufacture	Epoxy coated mild steel or optional stainless steel
Ingress Protection Rating	IP66
Mass	25 kg (55 lb)
Temperature Rating	0°C to +60°C (+32°F to +140°F)
Cabling Supply	2 pair, overall shielded, 10 metres standard, up to 1000 m maximum

### Controller Assembly

Model	DDG3
Circuit Construction	16 bit microprocessor; 32K memory; Analogue I/O 12 bit resolution; 4 line transfective backlit LCD; LED indicators on all I/O; 16 key Tactile membrane
Temperature Rating	0°C to +55°C (+32°F to +131°F)
Supply voltage	24VDC, 110VAC or 230VAC 50-60 Hz, 10W
Mass	10 kg (22 lb)
Mounting Type	Wall mount
Material of Manufacture	316SS IP66
I/O	Two 4-20 mA programmable current loop outputs 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 220VDC, 250VAC, 2 amp max Voltage free contact for remote totaliser rated 220VDC, 250VAC, 2 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, lockable
Source Type	Either Cs-137 or Co-60
Mass	42 kg (95 lb) (Small Housing)
NHMRC Approval	Yes

Authorised Distributor and Service Provider:



**NSW**  
Unit 5/15-23 Kumulla Road  
Miranda, NSW, 2229  
Tel. 02 9525 3077  
Fax. 02 9525 3011  
[Sales@srotechnology.com](mailto:Sales@srotechnology.com)  
[www.srotechnology.com](http://www.srotechnology.com)

**QLD**  
Unit 8, 160 Lytton Road  
Morningside, QLD, 4170  
Tel. 07 3395 6136  
Fax. 02 9525 3011  
[Sales@srotechnology.com](mailto:Sales@srotechnology.com)  
[www.srotechnology.com](http://www.srotechnology.com)

**WA**  
10 Aitken way,  
Kewdale, WA, 6105  
Tel. 08 9441 3201  
Fax. 02 9525 3011  
[Sales@srotechnology.com](mailto:Sales@srotechnology.com)  
[www.srotechnology.com](http://www.srotechnology.com)