

DDG3

High Performance Digital Density Measurements of Liquid or Slurry

The Thermo Scientific High Performance Digital Density Gauge with the latest 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 DDG3 allows accurate process control and optimum productivity in the processing of liquids and slurries.

Industries

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

Applications

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

Advantages of the DDG3 include:

- Non-intrusive density measurement, suitable for applications containing a high temperature, highly toxic or highly corrosive material
- Microprocessor electronics and highly sensitive detectors ensure reliability and accuracy
- Rugged construction for the use in harsh applications and environments
- Sensitive scintillation detectors ensuring the use of low strength isotopes
- User friendly menu driven display for set-up and calibration
- Can be used on pipes up to 1000 mm (39 in) in diameter
- Auto source decay compensation



Find out more at thermofisher.com/density

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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	5 kg (11 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
Protocols	Modbus RTU (RS-485) and ModBus TCP (standard). HART, PROFINET or Ethernet/IP (options)
Decay Compensation	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	Cs-137, Co-60 or Ba-133
Mass	42 kg (95 lb) (Small Housing)
NHMRC Approval	Yes

Find out more at thermofisher.com/density
or email Sales.AUADL@thermofisher.com



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