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THE NETHERLANDS

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NON-NUCLEAR DENSITY METERS

DATASHEET ADM-S

EDITION
SEPTEMBER 2020



Specifications

GENERAL

Measuring	Density ρ (ton/m ³)
Range	Output will be set to applicable range, e.g. 1.000 - 1.800 kg/m ³
Maximum range	0.000 - 4.000 kg/m ³
Pressure operation	0 - 8 bar (0 - 116 psi)
Pressure peak	0 - 16 bar (0 - 232 psi)
Temperature process	0° - 60°C
Temperature ambient	-25° to 50°C
Temperature storage	-40° to 80°C
Reading Scale	kg/m ³ (standard) User configurable (kg/l, kg/dm ³ , T/dm ³ , lb/ft ³ , oz/in ³ , oz/ft ³)
Calibration	Factory 3 point kalibration; application taring option in software
Vibration resistance	Resulting vibrations in the exitation direction Z should not be more than an acceleration with a power spectral density of 10^{-6} (m/s ²) ² /Hz in the 20-120 Hz frequency range

MEASUREMENT

Accuracy	0,5% of full scale
Temperature error coefficient	0,5% / 10°C (0,3% / 10°F)
Pressure error coefficient	0,1% / bar (0,069% / 10 psi)
Repeatability	± 0,1% of full scale
Signal delay	1 second; Averaging interval is user configurable

MECHANICAL

Housing material	Carbon steel
Colour	RAL 5015 (blue)
Type of painting	Industrial wet coating
Contact material	Natural Rubber. Other materials available on request
Mounting	Flanged connections, power supply in, signal output out
Flanges	DIN

ELECTRICAL

Power consumption	Max. 0,55kW, 42 W under normal operation
Operating voltage	24Vdc
Connecting voltage	100 - 230Vac
Connecting frequency	50Hz / 60 Hz
Cabinet dimensions	380x380x 210 for ADM 100-300 S; 500x500x210 ADM 350-500 S
Cabinet colour	RAL 7035 (grey)
Length of cable	Electric cabinet is standard mounted on ADM.
Optional longer cable	10 meter cable to mount electric cabinet at another position
Interface type	4 - 20 mA
Optional interfaces	Different types of bus on request
Sampling rate	8 kHz intern/ 1Hz extern
Protection class	IP66 according to EN 60529
Optional SIM router	Sim router + antenna for remote support mounted in electric cabinet

Metric Sizes

METRIC SIZES	ADM 100 S	ADM 150 S	ADM 200 S	ADM 250 S	ADM 300 S	ADM 350 S	ADM 400 S	ADM 450 S	ADM 500 S
Inner diameter (mm)	100	150	200	250	300	350	400	450	500
METER MEASUREMENTS									
Length (mm)	500	500	500	650	750	800	850	900	950
Width (mm)	720	780	830	930	1030	1070	1110	1155	1200
Height (mm)	499	559	619	719	817	860	915	969	1025
Weight (kg)	152	185	215	330	445	553	660	766	887

Imperial Sizes

IMPERIAL SIZES	ADM 14 S	ADM 16 S	ADM 18 S	ADM 110 S	ADM 112 S	ADM 114 S	ADM 116 S	ADM 118 S	ADM 120 S
Inner diameter (inch)	4	6	8	10	12	14	16	18	20
METER MEASUREMENTS									
Length (inch)	20	20	20	26	30	31	33	35	37
Width (inch)	28	31	33	37	41	42	44	45	47
Height (inch)	20	22	24	28	32	34	36	38	40
Weight (kg)	152	185	215	330	445	553	660	766	887





Alia Instruments is a technology leader, focused solely on our density meter. We aim to become, and remain, the market leader in non-nuclear density meters. This means that the company is in constant development to further improve the meter and make it even more adaptable to the applicable processes. Our meter strives to be the most suitable solution offering sustainable production maximization to each and every one of our customers. We believe that as long as we maintain this focus, we will progressively achieve all of our targets.

Non-nuclear a clear choice

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