



INSTITUTENWEG 25A
7521 PH ENSCHEDE
THE NETHERLANDS

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NON-NUCLEAR DENSITY METERS DATASHEET

EDITION
DECEMBER 2017



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
Calibration	Factory 3 point kalibration; application taring option in software
Vibration resistance	10-55 Hz

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

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 / ASME / BT10 / JIS

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	300 x 300 x 210 mm
Cabinet colour	RAL 7035 (grey)
Length of cable	10 m
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
Explosion proof option	Expected Q3 2018

Metric Sizes

METRIC SIZES	ADM 80	ADM 100	ADM 150	ADM 200	ADM 250	ADM 300	ADM 350	ADM 400	ADM 450	ADM 500	ADM 550	ADM 600	ADM 650
Inner diameter (mm)	80	100	150	200	250	300	350	400	450	500	550	600	650
METER MEASUREMENTS													
Length (mm)	900	1000	1000	1400	1500	1600	1700	1750	1800	2000	2100	2200	2250
Width (mm)	400	400	500	800	800	900	950	1000	1000	1100	1200	1300	1350
Height (mm)	500	500	600	800	800	900	1100	1200	1350	1500	1600	1800	1950
Weight (kg)	120	160	240	400	800	1000	1250	1500	1800	2100	2600	3200	3600
PACKAGE MEASUREMENTS													
Length (mm)	1100	1200	1200	1600	1700	1800	1900	1950	2000	2200	2300	2400	2450
Width (mm)	600	600	700	1000	1000	1100	1150	1200	1200	1300	1400	1500	1550
Height (mm)	850	850	950	1150	1150	1250	1450	1550	1700	1850	1950	2150	2300
Weight (kg)	170	220	310	530	945	1160	1430	1700	2030	2360	2890	3535	3970

METRIC SIZES	ADM 700	ADM 750	ADM 800	ADM 850	ADM 900	ADM 950	ADM 1000	ADM 1050	ADM 1100	ADM 1150	ADM 1200	ADM 1250	ADM 1300
Inner diameter (mm)	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
METER MEASUREMENTS													
Length (mm)	2300	2400	2600	2750	2825	2900	3000	3100	3200	3300	3400	3450	3500
Width (mm)	1400	1500	1600	1700	1750	1800	1900	1950	2000	2100	2200	2300	2350
Height (mm)	2050	2200	2400	2450	2500	2700	2800	2950	3000	3200	3300	3450	3600
Weight (kg)	3950	4250	4650	5000	5300	5600	6050	6300	6600	7000	7300	7650	8000
PACKAGE MEASUREMENTS													
Length (mm)	2500	2600	2800	2950	3025	3100	3200	3300	3400	3500	3600	3650	3700
Width (mm)	1600	1700	1800	1800	1950	2000	2100	2150	2200	2300	2400	2500	2550
Height (mm)	2400	2550	2750	2900	2950	3100	3250	3400	3450	3650	3750	3900	4050
Weight (kg)	4350	4695	5170	5565	5915	6235	6767	7118	7457	7934	8296	8710	9111

Imperial Sizes

IMPERIAL SIZES	ADM I3	ADM I4	ADM I6	ADM I8	ADM I10	ADM I12	ADM I14	ADM I16	ADM I18	ADM I20	ADM I22	ADM I24	ADM I26
Inner diameter (inch)	3	4	6	8	10	12	14	16	18	20	22	24	26
METER MEASUREMENTS													
Length (inch)	35	39	39	55	59	63	67	69	71	79	83	87	89
Width (inch)	16	16	20	31	31	35	37	39	39	43	47	51	53
Height (inch)	20	20	24	31	31	35	43	47	53	59	63	71	77
Weight (kg)	120	160	240	400	800	1000	1250	1500	1800	2100	2600	3200	3600
PACKAGE MEASUREMENTS													
Length (inch)	43	47	47	63	67	71	75	77	79	87	91	94	96
Width (inch)	24	24	28	39	39	43	45	47	47	51	55	59	61
Height (inch)	33	33	37	45	45	49	57	61	67	73	77	85	91
Weight (kg)	170	220	310	530	945	1160	1430	1700	2030	2360	2890	3535	3970

IMPERIAL SIZES	ADM I28	ADM I30	ADM I32	ADM I34	ADM I36	ADM I38	ADM I40	ADM I42	ADM I44	ADM I46	ADM I48	ADM I50	ADM I52
Inner diameter (inch)	28	30	32	34	36	38	40	42	44	46	48	50	52
METER MEASUREMENTS													
Length (inch)	91	94	102	108	111	114	118	122	126	130	134	136	138
Width (inch)	55	59	63	67	69	71	75	77	79	83	87	91	93
Height (inch)	81	87	94	96	98	106	110	116	118	126	130	136	142
Weight (kg)	3950	4250	5000	5500	5300	5600	6050	6300	6600	7000	7300	7650	8000
PACKAGE MEASUREMENTS													
Length (inch)	98	102	110	116	119	122	126	130	134	138	142	144	146
Width (inch)	63	67	71	71	77	79	83	85	87	91	94	98	100
Height (inch)	94	100	108	114	116	122	128	134	136	144	148	154	159
Weight (kg)	4350	4695	5170	5565	5915	6235	6767	7118	7457	7934	8296	8710	9111



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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