

MicroScan™

MonoScan®

2-wire ultrasonic continuous level measurement for liquids,
solids and for open channel flow

MonoScan® and MicroScan™ are non-contact ultrasonic continuous level measurement products based on our patented technology. These systems offer affordable solutions for a variety of applications and industries: Water, Wastewater; Petrochemical; Chemical, Food and Beverage.



MicroScan™

- Our entry level cost effective product
- Fast setup, configuration and commissioning
- Maximum range of 5 meters (16ft) for liquid measurements
- 4-20mA output and optional LCD display
- False echo tracing
- Direct installation on tanks, vessels and reactors
- Independent hand held programming unit for fast configuration of multiple units
- Perfect for diesel oil tank measurements

CE

MonoScan®

- Extended range of 0.25 to 15 meter (0.8ft to 49ft)
- Integral LCD display, keypad and integral 4-20mA output
- Automatic compensation for different environments
- Approved for installations in hazardous areas (Ex)
- Simple to install and configure
- Direct installation on tanks, vessels and reactors

Applications

Water & Waste water
Petrochemicals
Chemical processes
Food & Beverage industries



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Applied Technologies Ltd.

Data Sheet

MonoScan®

MicroScan™

Type	Ultrasonic 2-wire mono-block	Ultrasonic 2-wire monoblock
Max range for liquids	5 meter (short) / 16.5ft 15 meter (std) / 49ft	5 meter / 16ft
Max range for solids	3.5 meter (short) / 11.5ft 8.5 (std) / 28 ft	3.5 meter (11.5ft)
Min range for liquids	0.25 meter (short) / 0.8ft 0.60 meter (std) / 2ft	0.25 meter /0.8ft
Measuring accuracy	0.25% of max range* (1 cm max [short]) (3.5 cm max [std])	0.25% of max range* (1 cm max)
Transmission frequency	25KHz	25KHz
Temperature compensation	Internal	Internal
Power supply	12 – 28 VDC	12 – 28 VDC
Loop current load	750 ohm @ 28VDC	750 ohm @ 28VDC
Output signal	4 - 20mA	4 - 20mA
Transmitter	ABS + UV	ABS + UV
Material Sensor	Polypropylene or PVDF (optional)	Polypropylene or PVDF (optional)
Acoustic window	ECTFE	ECTFE
Mounting thread	2" BSP or 2" NPT	2" BSP or 2" NPT
Operating Temperature	-40°C to +70°C (-40°F to 158°F)	-40°C to +70°C (-40°F to 158°F)
IP Protection	IP 65	IP 65
Display	Integral LCD (4 digits)	Optional Integral LCD (4 digits)
Cable connection	1 X Conduit " NPT (options of gland or M20)	1 X Conduit " NPT (options of gland or M20)
Weight	1.4 Kg max	0.75 Kg
Dimensions	Approx 29 X 11 X 9 cm3	Approx 23 x 11 x 6 cm3
Certifications	CE ATEX, FM, NEPSI (optional)	CE



(*) Tested in a controlled laboratory environment at room temperature

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All specifications are subject to change without notice