



CERGAS PROSES SDN BHD

FLOW

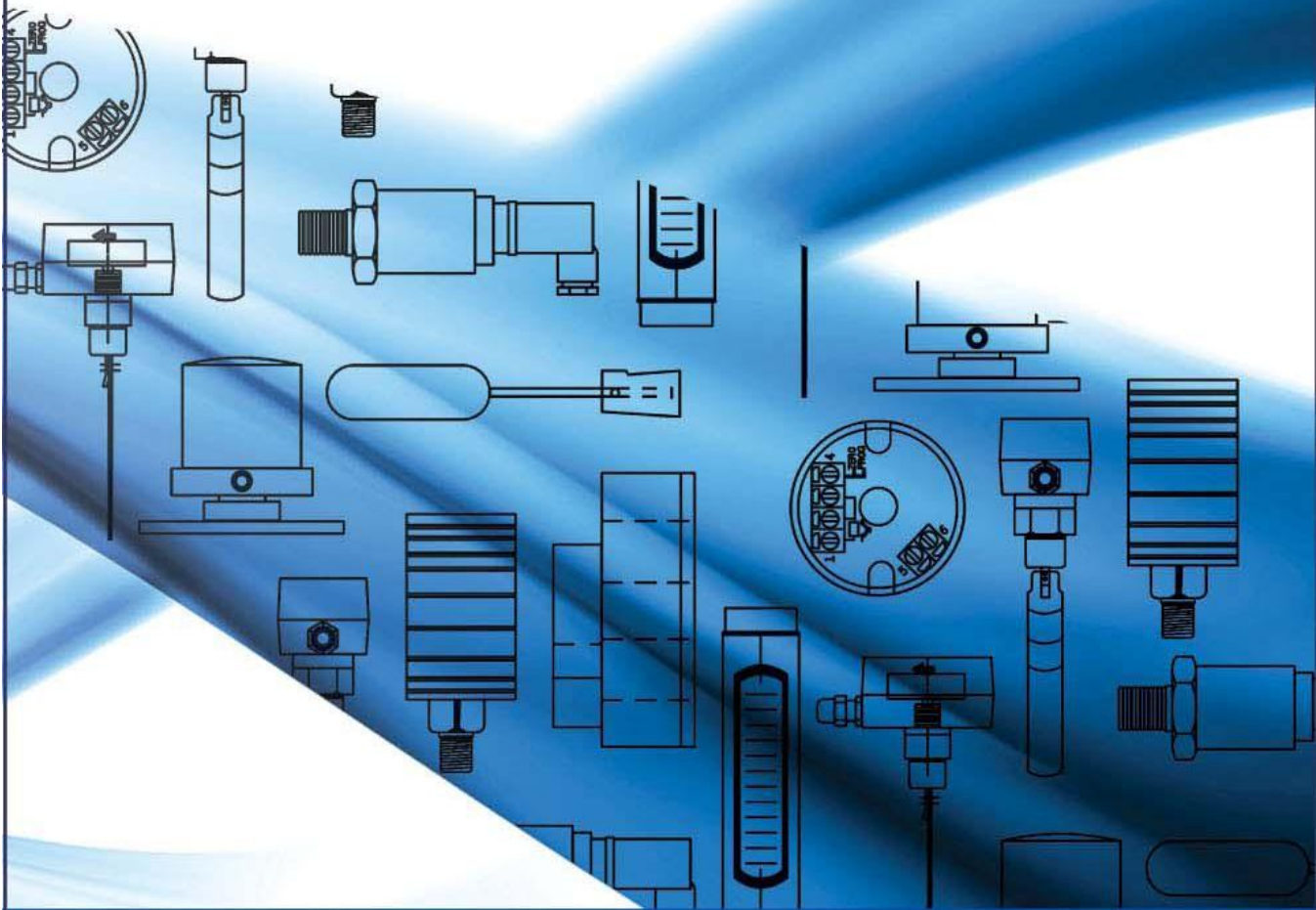
LEVEL

TEMPERATURE

PRESSURE

SYSTEM

VALVE



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ALVAMT VA METAL TUBE FLOWMETER

Technical Data

Size : 15~200mm
Measuring Range : Water (20°C) 1.6~150,000 l/h
 Air (20°C, 0.1013MPa) 0.05~4,000 m³/h
Temperature : Standard (E) -80~ +200~ +300°C
Pressure Loss : 6.5~15.6KPa
Pressure : Standard : 1.6MPa (DN65 - DN150), 4.0<Pa (DN15 - DN50)
 High : 2.5MPa (DN65 - DN150), 6.4MPa (DN15 - DN50)
Viscosity : 15mm~20mm - <30 CP, 25mm~40mm - <250 CP
 50mm~200mm - <300 CP
Wetted Parts : SS 304 standard, SS 316 optional
 Tantalum (flow tube), PTFE (flow tube), PTFE Lining
Flanges : ANSI and DIN-type available
Accuracy : ±1.5% (Standard) ±2.5% (PTFE Liner)
Repeatability : ±0.5% of reading
Signal Output : 4 - 20mA (2-wire)
Local Display : Mechanical Indicator (standard)
Digital Display : Rate 0~50000, Total 0~99999999 (with decimal)
Power Supply : 85~264V_{AC} 50-60 Hz
Approvals : Isolation : Exd II CT5 Intrinsic Safety : Exia II C
Alarms : High / Low limit alarm, Maximum 1A @ 24V_{DC}
Data Storage : EEPROM (up to 10 years)
Flow Orientation : Top enter / top exit, Standard
 Bottom enter / Top exit, Right enter / Left exit, Left enter / Right exit
Protection : IP 65
Housing Material : Aluminium
Cable Connector : M20x1.5 or 1/2" NPT



METAL TUBE VA FLOW METER

Technical Data

BF300E for high flows of gas, liquid and steam
Case Material : SS316
Body Wetted Parts : SS316, Others on request
 Indication via magnetic coupling (no sealed)
Scales calibrated : in l/h, m³/h, kg/h, %, etc
Flow Rates for :
 -Water : 4 l/h up to 100,000 l/h (Special ranges on request)
 -Air : 0.1 Nm³/h up to 1200 Nm³/h (Special ranges on request)
Connection types : flange type, trip clamp & sanitary (others on request)
Connection Size : 1/2" ~ 5" (Threaded and Flanged upon request)
Mouting Length : 250mm, standard or others
Temperature : -50°C to +200°C (300°C option)
Protection Class : IP65
Accuracy : ±2% F.S. (±1.6% F.S Option)
Max Pressure : 40 kg/cm² (standard)
 (Option : Up to 100 kg/cm²)
Model : Recommended BF300E



ACRYLIC PLASTIC FLOW METER

with alarm switch type
 without alarm switch type

Technical Data

Service : liquid, oil and gas
Wetted parts material : Body-Acrylic Plastic O-rings-NBR,
 Float- magnet coating with polypropylene (P.P)
Connection Material : SS316
Connection Size : 3/8", 1/2", 3/4" NPT female available
Mounting : vertical and horizontal available, various flow directions
Temperature & pressure limits : 150 psig (10 bar) @ 100°F (38°C)
Temperature limit : -24°C~+54°C
Accuracy : ±5% full scale
Alarm switch : one or two setting points, form A N.O. type bistable reed switch
Switch rating : AC 125V 0.5A / DC 100V 10W / Max. DC 250V <1mA
Weight : 0.45~0.5 kg (Contact setting point should be within 10 % to 80% of FS)
Model : Recommended SF100, SF200, VF100, VF200, FAC200, FAC300, OA



METAL TUBE VA FLOW METER

Technical Data

MF200 for low flow of gas, liquid and steam
Material : Aluminium alloy painted for case; body in stainless steel
Indication : Via magnetic coupling(no sealed)
Scales : Calibrated in l/h, m³/h, kg/h, %
Connection Types : BSP, NPT, flange type on request
Working Temperature :
 Combine with electronic parts : -40°C~+150°C
 Combine without electronic parts : -40°C~+180°C
Working Pressure : standard 100kg/cm²; other options upon request
Connection Size : 1/4"~2"
Protection Class : IP65
Accuracy : ±2% F.S. (±1.6% F.S Option)
Model : Recommended MF200



VARIABLE AREA TYPE FLOW METER(ROTAMETER)

Technical Data

Measuring The Flow Rate For

- Gases & Liquid
- Chemical process system
- Water treatment system
- Industrial flow system

Service Condition

- Viscosity : < 3 cp
 - Max working temperature : Metal : 100°C; Plastic : 60°C
 - Max working pressure :
- (1) Body Material : NPS : 15 kg/cm², NPI : 15kg/cm, NPV : 6 kg/cm²
 - (2) Glass tube : 6kg/cm
 - (3) P.C tube : 10kg/cm², Instant pressure : 15kg/cm²

Alarm Switch Available (N.O)

- Switch rating : AC 125V 0.5A / DC 100V 10W / Max.DC 250V < 1mA

Accuracy : ±2.5% F.S

Model : Recommended NP, NR, N

Connection Size : DW 15 - DN 125



PADDLE WHEEL FLOW METERS

Technical Data

Type : Hall effect element, bi-direction
Measure range : 0.5 V 6.0 m/s (recommend value)
Material : Body V CPVC, SUS316L, 6 Blade V ECTFE, Bearing & Shaft V H.D.
 Ceramic or SUS316L, Oring V EPDM, Viton, Viton coating PTFE
Power supply : <10εgA @ 5V DC or 24V DC connect to PLC/I/PC
Signal output : Square wave A frequency 36Hz per m/s
Accuracy : " 0.5 % FS (K factor calibrated)
Repeatability : " 0.5 % FS
Enclosure : IP68, epoxy resin infused
Fulid Temp. : CPVC body - Max. 85°C FSUS316L body - Max. 100°C
Operating : PVC / CPVC piping - Max. 10 bar @ 20°C water
Pressure : CS / SUS piping - Max. 16 bar
Wiring : PVC insulated, 3 wire AWG #22 isolated cable (Max. up to 150M),
 M12 x 4 Pins female cable, IP68 enclosure
Storage temp. : -10 ~ 65°C
Approval : CE Approval, IEC61000
Sensor Type : N- Accept 5V DC, P- Accept 24V DC
Sensor body : C- CPVC, S- SUS316L
O ring : E EPDM, V Viton, P Viton coating PTFE
Sensor size (According to the installed fitting) : Short, Long
Electronic wiring(3 wire isolated cable length in Meter) :
 M12/4Pin connector, 010-150 3 wire isolated cable
Connection Size : DN 15 - DN 2000mm





FLOW SWITCH

FS20R & FS20 Din - Weather Proof
FS20X - Explosion Proof



Technical Data

Size: From 1/2" to 6"
Service: For liquid fluid / air / gas
Material: Wetted parts 316 stainless steel / Brass
Temperature Limit: -20°C ~ +150°C
Pressure Limit: 7.0MPa (70kg/cm²)
Enclosure housing: FS20R & FS20 Din - Weather Proof
FS20X - Explosion Proof
Switch function: SPDT micro switch
Switch rating: 3A/250VAC, 3A/30VDC, 0.4A/125VDC
Conduit Connection: 3/4" NPT female, option available
Model: Recommended FS20, FS25R, FS25X, FS30R, FS40R

FLOW SIGHT GLASS GAUGE

Flange Connection With Spring Paddle



Technical Data

Service:
-Compatible gas and liquid
-Water treatment system
-Industrial flow system
-Double window indication
Material: Body- SS316, SS304, SS316L; Paddle -SS316
Spring- SS316; Guge- Tempered glass; gasket-Teflon, Gore tex
Max Working Temperature: 200°C (Option : 300°C available)
Max Working pressure:
FA Type-10kg/cm² at 25°C air
FB Type-15kg/cm² at 25°C air (Option: 30kg/cm²)
(FA, FB upon pressure on request available)
Model: Recommended F Series
Size: 1/2" - 8"
Mounting: Flange type or threaded

WOLTMAN COLD / HOT WATER METER

Technical Data

Application: Measuring the volume of cold / hot water passing through the pipeline
Working Condition:
Water temperature : 0.1°C~40°C (0.1°C ~ 90°C for hot water meter)
Water pressure: <1 Mpa (1.6MPa for special requirement)
Maximum permissible errors:
(1) in the lower zone from q_{min} inclusive up to but excluding q_t is ±5%
(2) in the upper zone from q_t inclusive up to and including q_s is ±2% (±3% for hot water meter)
Size: DN15 - DN300
Mounting: Flange to ANSI 1, DIN or JIS 10k upon request
Threaded connection from 1/2" -2" BSP



ORIFICE PLATE TYPE FLOWMETER

Opf Series

Technical Data

Service: Air, Gases, Water and other liquid
Indicator: Dial Ø 4" or Ø 6" available
Material: SS304
Body Material: S316, SS304, PVC, PVDF, option available
Protection Class: IP65
Flow Element: Orifice type
Connection Size: 2"~20" and option available
Connection Rating: ANSI 150#, ANSI 300#, other available
Flow Range: water-3~2500 M³/H; Air-30~2400 NM³/H
Max. Working Temperature: PVC-40°C; PVDF-80°C; Metal-80°C
Accuracy: ±3% F.S (Ascending)
Output: 4 - 20 mA or switch upon request



MICROPROCESS RATE & TOTALIZER CONTROLLER METER

Technical Data

Programable Rate: 0 to 19999 digit (rate), 0 to 999999999 digit (totalizer)
Accuracy: 0.05% F.S. 1digit
Programmable Time Base: 1,60,3600 second
Programmable Rate: 0 to 19999 digit
Programmable Scale Factor: 0.00001 to 9999.99999 (totalizer)
Math-Rootextractor Function
Correction for non-linearity Function: 9 segments (optional)
Dual alarm function: (optional)
15 bit DAC isolating analog output function: (optional)
Digit RS-485 interface function: (optional)
Digital pulse output function: (optional)
Input: Pulse / 4 - 20mA / 0 - 10V



ULTRA 3 Ultrasonic Open Channel Flowmeter

Technical Data

Weight: Nominal 1kg **Case material:** Polycarbonate, flame resistant to UL94-V2
Transducer cable: Twin screened **Maximum separation:** 1000m
Rack mount: 10HP x 160mm deep x 3U (128.5mm) high
Panel mount: 72mm wide x 144mm high x 176mm deep
Fascia mount: See separate technical update TU-001-Z IP rating (wall mount) : IP65
IP rated panel mount (optional): IP65
Max and min temp. (electronics): -20°C to +60°C
Flammable atmosphere approval: Safe area : compatible with approved dB transducers (see transducer specification sheet)
CE Approval: EMC approval to BS EN 50081-1: 1992 for emissions and BS EN 50082-2 :1995 for immunity, and to BS EN 61010-1:1993 for low voltage directive.
Accuracy: 0.25% of the measured range or 6mm (whichever is greater)
Resolution: 0.1% of the measured range or 2mm (whichever is greater), 1mm when using dBMACH3
Range: Depending upon transducer, from 125mm to 40m (75mm to 2.5m dBMACH3 for open channel flow)
Echo processing: Patented DATEM (Digital Adaptive Tracking of Echo Movement)
Analogue output: Isolated output 4-20mA or 0-20mA into 500Ω (user programmable and adjustable), 0.1% resolution
Digital output: Full duplex RS232 via RJ11 port
Display: 6 digits plus 12 character text, plus bargraph with direction indicators, remote communicator identifier and program/run/test mode indicators
Remote programming: Standard on rack and panel mount units via infra red communicator
On-board programming: Standard on wall and fascia mount with integral keypad
PC Programming: Via RS232 (RJ11 port)
Programming security: Via password (user selectable and adjustable)
Programmed data integrity: Via non-volatile RAM, plus backup
Power supply: 115V ac +5% -10% 50/60Hz, 230V ac +5% -10%, 18-36V dc





FLOW SWITCH

FS20R & FS20 Din - Weather Proof
FS20X - Explosion Proof



Technical Data

Size: From 1/2" to 6"
Service: For liquid fluid / air / gas
Material: Wetted parts 316 stainless steel / Brass
Temperature Limit: -20°C ~ +150°C
Pressure Limit: 7.0MPa (70kg/cm²)
Enclosure housing: FS20R & FS20 Din - Weather Proof
FS20X - Explosion Proof
Switch function: SPDT micro switch
Switch rating: 3A/250VAC, 3A/30VDC, 0.4A/125VDC
Conduit Connection: 3/4" NPT female, option available
Model: Recommended FS20, FS25R, FS25X, FS30R, FS40R

FLOW SIGHT GLASS GAUGE

Flange Connection With Spring Paddle



Technical Data

Service:
-Compatible gas and liquid
-Water treatment system
-Industrial flow system
-Double window indication
Material: Body- SS316, SS304, SS316L; Paddle -SS316
Spring- SS316; Guge- Tempered glass; gasket-Teflon, Gore tex
Max Working Temperature: 200°C (Option : 300°C available)
Max Working pressure:
FA Type-10kg/cm² at 25°C air
FB Type-15kg/cm² at 25°C air (Option: 30kg/cm²)
(FA, FB upon pressure on request available)
Model: Recommended F Series
Size: 1/2" - 8"
Mounting: Flange type or threaded

WOLTMAN COLD / HOT WATER METER

Technical Data

Application: Measuring the volume of cold / hot water passing through the pipeline
Working Condition:
Water temperature : 0.1°C~40°C (0.1°C ~ 90°C for hot water meter)
Water pressure: <1 Mpa (1.6MPa for special requirement)
Maximum permissible errors:
(1) in the lower zone from q_{min} inclusive up to but excluding q_t is ±5%
(2) in the upper zone from q_t inclusive up to and including q_s is ±2% (±3% for hot water meter)
Size: DN15 - DN300
Mounting: Flange to ANSI 1, DIN or JIS 10k upon request
Threaded connection from 1/2" -2" BSP



ORIFICE PLATE TYPE FLOWMETER

Opf Series

Technical Data

Service: Air, Gases, Water and other liquid
Indicator: Dial Ø 4" or Ø 6" available
Material: SS304
Body Material: S316, SS304, PVC, PVDF, option available
Protection Class: IP65
Flow Element: Orifice type
Connection Size: 2"~20" and option available
Connection Rating: ANSI 150#, ANSI 300#, other available
Flow Range: water-3~2500 M³/H; Air-30~2400 NM³/H
Max. Working Temperature: PVC-40°C; PVDF-80°C; Metal-80°C
Accuracy: ±3% F.S (Ascending)
Output: 4 - 20 mA or switch upon request



MICROPROCESS RATE & TOTALIZER CONTROLLER METER

Technical Data

Programable Rate: 0 to 19999 digit (rate), 0 to 999999999 digit (totalizer)
Accuracy: 0.05% F.S. 1digit
Programmable Time Base: 1,60,3600 second
Programmable Rate: 0 to 19999 digit
Programmable Scale Factor: 0.00001 to 9999.99999 (totalizer)
Math-Rootextractor Function
Correction for non-linearity Function: 9 segments (optional)
Dual alarm function: (optional)
15 bit DAC isolating analog output function: (optional)
Digit RS-485 interface function: (optional)
Digital pulse output function: (optional)
Input: Pulse / 4 - 20mA / 0 - 10V



ULTRA 3 Ultrasonic Open Channel Flowmeter

Technical Data

Weight: Nominal 1kg **Case material:** Polycarbonate, flame resistant to UL94-V2
Transducer cable: Twin screened **Maximum separation:** 1000m
Rack mount: 10HP x 160mm deep x 3U (128.5mm) high
Panel mount: 72mm wide x 144mm high x 176mm deep
Fascia mount: See separate technical update TU-001-Z IP rating (wall mount) : IP65
IP rated panel mount (optional): IP65
Max and min temp. (electronics): -20°C to +60°C
Flammable atmosphere approval: Safe area : compatible with approved dB transducers (see transducer specification sheet)
CE Approval: EMC approval to BS EN 50081-1: 1992 for emissions and BS EN 50082-2 :1995 for immunity, and to BS EN 61010-1:1993 for low voltage directive.
Accuracy: 0.25% of the measured range or 6mm (whichever is greater)
Resolution: 0.1% of the measured range or 2mm (whichever is greater), 1mm when using dBMACH3
Range: Depending upon transducer, from 125mm to 40m (75mm to 2.5m dBMACH3 for open channel flow)
Echo processing: Patented DITEM (Digital Adaptive Tracking of Echo Movement)
Analogue output: Isolated output 4-20mA or 0-20mA into 500Ω (user programmable and adjustable), 0.1% resolution
Digital output: Full duplex RS232 via RJ11 port
Display: 6 digits plus 12 character text, plus bargraph with direction indicators, remote communicator identifier and program/run/test mode indicators
Remote programming: Standard on rack and panel mount units via infra red communicator
On-board programming: Standard on wall and fascia mount with integral keypad
PC Programming: Via RS232 (RJ11 port)
Programming security: Via password (user selectable and adjustable)
Programmed data integrity: Via non-volatile RAM, plus backup
Power supply: 115V ac +5% -10% 50/60Hz, 230V ac +5% -10%, 18-36V dc





MEC Positive Displacement Flowmeter M-Series M100 Flowmeter

Technical Data

Meter type : Meter with mechanical display
Meter Body Material : Aluminium / Bronze / Stainless Steel
Wetted Components :
Rotor Material : Aluminium / Stainless Steel
Shafts : 316 Stainless Steel
O'ring : NBR (Nitrile)
Flow Rate Ranges : (Litres Per Minute/US Gallons Per Minute)
Above 5 cP : 120 To 1200 / 32-317 (1000 cPs High Viscosity Rotors available)
Below 5cP : 200To 1200 / 53-317
Accuracy : Within (Of Reading) +/- 0.5%
Repeatability : 0.03%
Max Viscosity (Of Standard Model) : 1000 cPs
Max Operating Pressure : 1200kpa / 175psi / 12 bar
Max Operating Temp : AL 80°C / 176°F St St 120°C / 248°F
Type Connection : Threaded / Flange
Size : DN6 - DN100



MASS FLOW CONTROLLERS With or Without LCD Display

Technical Data

Wetted Material : Standard flowbody -316 Stainless Steel, Option available. O-ring Viton
Output Signal : 0-5 VDC Linear min.load 1000 Ω or 4-20 mA Linear, loop resistance 500 Ω
Input Power : 24 VDC Standard, optional power supply 15 VDC 115 Vac, 220 Vac @ 500mA
Accuracy : +/- 1% F.S (including Linearity)
Turn Down Ratio : 100:1
Repeatability : +/- 0.15% F.S or better
Electric Connection : 9 Pin Sub "D"
Process Connection : 1/4" NPT Female
Control Signal : Integral or 0-5 VDC
Control Valve : Electromagnetic N/C (Norm. Closed)
Range : 0-10 SCCM to 50 SLM (24 VDC), 0-10 SCCM to 20 SLM (15 VDC)
Max Pressure : 500 PSIG
Temperature Range : 0~50°C
Response Time : 1 Second
Temp. Coefficient : 0.05% Full scale per 1°C or better
Pressure Coefficient : 0.01% full scale per PSIG or better
Weight : app. to 1.35kg with power supply
Model : Recommended TLFC



ALBRPD POSITIVE DISPLACEMENT FLOWMETER

Technical Data

Flow Range : up to 8800 GPM (2000 M³/hr)
Line Size : 1/4" - 16" (8 - 400mm) ANSI or DIN Flange
Operating Pressure : : max. 930 psig (64 bar)
Process temperature : : -22~ 480°F (-30°C~250°C)
Body material : Stainless Steel 304 and Carbon Steel
Viscosity : 0~20,000 cP
Enclosure Rating : NEMA 4 (IP 65)
Working Temperature : 104~176°F (40°C~80°C)
Working Humidity : <90% @75°F
Accuracy : ±0.1%
Repeatability : ±0.01%
Pulse Output : (24Vdc±5%, V_H>20V) V_L<1V and output load < 200 Ω)
Current Output : 4 - 20mA, (two wire system w/600 max loop load)
Digital Output : RS485/RS232 communication with Modbus RTU (powered by 24Vdc±5% and <60mA)
Display : Rate, total, low flow cut-off, battery consumption
User Parameters : K-factors, linear correction coefficient flowrate input signal section points, temperature and pressure compensation, set pulse output range, decimal adjustment, etc
Communication baud rates : User selectable (1200, 2400, 4800 or 9600)



ALIAMASS INSERTION THERMAL MASS FLOWMETER

Technical Data

Process Connection : Threaded, Flanged, Ball Valve
Process Temperature : 32 - 850°F (0 - 455°C)
Operating Pressure : 580 psi (40 bar)
Mass Velocity : Up to 666 feet /sec (203 m/s)
Flow Units : Kg/hr, Kg/mn, Kg/s, Lb/hr, Lb/, Lb/s, NCMH, SCFM, NLPM, SLPM Mt/s, F/mn, BTU/Hr, Btu/min
Gas Pressure Effect : Minor, <±20% of calibration pressure
Gas Temperature Effect : 0.01%/°C
Accuracy (and Linearity) : ±{1% of reading + (0.5% FS + 0.2%/°C) ±0.2% of Full Scale
Repeatability : ±0.25% of Full Scale
Turn Down Ratio : Over 100:1
Response Time : < one second
Material : 316SS as per DIN 1.4571 (AISI 316 Ti)
Data Logger : Flow rate, Total, Relays, etc 5800 Data
Display Units : Flow, Total flow, Switch Settings Temperature, Elapsed Time
RAM Back-Up : Lithium Battery
Data Storage : EPROM storage up to 10 years
Housing Protection : NEMA 4, Class 1, Div 1, Groups B, C & D
Ex- Protection : II 2GD EEx d IIC T2 or T3 or T4
Cable (remote version) : 985' (300 meters)
Wetted Material : 316 SSS (Hastelloy optional)



ALMAG ELECTROMAGNETIC FLOWMETER

Technical Data

Size : 3/8"~80" (10~2000mm)
Temperature : w/intergal electronics: 15~140°F(-10~60°C)
w/ remote electronics : 15~300°F (-10~150°C)
Measuring Range : 0.3-32 feet/sec (0.1-10m/s)
Material Measuring Tube : Carbon Steel (standard)
 Stainless Steel 304 (optional)
 Stainless Steel 316 (optional)
 Housing : Aluminium (standard)
 Carbon Steel (optional)
 Stainless Steel# 304 (optional)
 Stainless Steel# 316 (optional)
Liner : Polyurethane, Neoprene, FEP (F₂/g₂-12"only), PTFE
Electrode & Grounding : Stainless Steel 316L, Tungsten Carbide, Hastelloy B, C, Titanium, Tantalum
Cable Entry : 2 x PG11 **Ambient Temperature :** -15~140°F (-25~60°C)
Process Connection : Flange, wafer **Grounding Resistance :** Must be less than 10
Accuracy : ±0.5% of reading, ±0.2% of FS
Protection : IP 65, IP 67, IP 68 (Submersible)
Conductivity : must be > 5 US/cm
Model : Recommended ALMAGWP



ALIAMASS INLINE MASS FLOW AVERAGING TUBES

Technical Data

Process Connections : Threaded, Flanged
Process Temperature : 32-392°F (0-200°C)
Operating Pressure : : 580 psi (40 bar)
Mass Flow Rate : See model Selection guide section
Flow Units : Kg/hr, Kg/mn, Kg/s, Lb/hr, Lb/m, Lb/s, NCMH, SCFM, NLPM, SLPM Mt/s, F/mn, BTU/Hr, BTU/min
Gas Pressure Effect : Minor under ±20% of calibration pressure
Gas Temperature Effect : 0.01%/°C
Accuracy (and linearity) : ±{1% of reading + (,5% FS + .02%/°C) ±0.2% of Full Scale, ±0.25% of Full Scale
Repeatability : ±0.25% of Full Scale
Turn Down Ratio : Over 100:1
Response Time : Less Than one seconds
Material : 316SS as per DIN 1.4571 (AISI 316 Ti)
Data Logger : Flow Rate, Total, Relays, etc 5800 data
Linear Signal Output : 0-5Vdc & 4-20 mA
Pulse Output : Scalable
Relays : Two 1-amp, SPDT (Form C) User-selectable alarm functions
Display Units : Flow, Total flow, Switch settings, Temperature, elapsed time
RAM Back - Up : Lithium Battery
Data Storage : EPROM storage up to 10 years
Self diagnostics functions : ADC, DAC, alarm for EMI interference
Housing Protection : NEMA 4, Class 1, Div 1, Groups B, C & D
Ex- Protection : II 2GD EEx d IIC T2 or T3 or T4

