



INSTRUMENTATIONS CATALOG



A handwritten signature in black ink, appearing to read "yusuf hamdani".

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QTLD Electromagnetic Flowmeter Code Table

QTLD		Selection									
Caliber	DN10~DN3000 3-digital code seeing caliber code table 13										
Nominal pressure	0.6MPa	1									
	1.0MPa	2									
	1.6MPa	3									
	4.0MPa	4									
	Other	5									
Connection mode	Flange connection	1									
	Clamp connection	2									
	Sanitary connection	3									
Liner material	PTFE	1									
	PFA	2									
	Neoprene	3									
	Polyurethane	4									
	Ceramic	5									
Electrode material	316L	1									
	Hastelloy B	2									
	Hastelloy C	3									
	Titanium	4									
	Platinum-iridium	5									
	Tantalum	6									
	Stainless steel covered with tungsten carbide	7									
Structure type	Integral type	1									
	Remote type	2									
	Remote type immerse	3									
	Integral type Ex-proof	4									
	Remote type Ex-proof	5									
Power	220VAC 50Hz	E									
	24VDC	G									
Output/communication	Flow volume4~20mA/DC/pulse	A									
	Flow volume4~20mA/DC/RS232C communication	B									
	Flow volume4~20mA/DC/RS485 communication	C									
	Flow volume HART output/with communication	D									
Converter figure	Square	A									
	Circular	B									

Optional selection

X	
1	Grounding electrode
2	Coupled flange
3	Entrance protection flange
4	Scraper type electrode
5	Other

table 13
Caliber code table

Caliber	code
10	100
15	150
20	200
25	250
32	320
40	400
50	500
65	650
80	800
100	101
125	125
150	151
200	201
250	251
300	301
350	351
400	401
450	451
500	501
600	601
700	701
800	801
900	901
1000	102
1100	112
1200	122
1400	142
1500	152
1600	162
1800	182
2000	202
2200	222
2400	242
2600	262
2800	282
3000	302

QTLD Electromagnetic Flowmeter



- Accuracy: $\pm 0.2\%$ of the measurement value + 0.3m/s;
- Excellent small flow measurement accuracy, can measure duplex flow;
- Underground sensor(IP68) installed without building measuring well;
- Pipe connection: JIS 10K, JIS 20K, ANSI 150, ANSI 300, DIN PN10, DIN PN16;
- Cold, heat measure function;
- Double frequency excitation, stable zero point;
- Self-diagnosis, intelligent work;
- Build-in ground electrode, no need the grounding ring;



LUGB Series Vortex Flow Meter

Flow Range

Liquid and working condition gas flow range

Nominal Diameter (mm)	Water	Normal pressure and temperature air(NPT air)
	Standard Measuring Range(m ³ /h)	Standard Measuring Range(m ³ /h)
25	1.3-15	8-100
32	1.5-16	14-350
40	3-33	18-450
50	4-44	30-750
65	6-66	50-1250
80	13-140	70-1750
100	20-220	100-2500
125	36-400	200-5000
150	50-600	400-10000
200	100-1200	600-15000
250	150-1800	1000-25000
300	200-2400	

Flow Sensor Model Selection

Vortex flow meter sensor model describe as: LUGB-2-X X XX-X



Table 1: Special Mark

Format	Common	Standard Signal Output	Intrinsically Safe Explosion-proof	On Site Display	High Temperature (350°C)	Temperature Compensation	Pressure Compensation	Temperature&Pressure Compensation
Mark No.	None	M	B	X	G	W	Y	Z

Table 2: Nominal Diameter
Flange /Wafer Type

Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Mark No.	150	200	250	320	400	500	650	800	101	125	151	201	251	301

Insertion Type

Size	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000
Mark No.	100	125	151	201	251	301	351	401	501	601	701	801	901	102	122	142	162	182	202

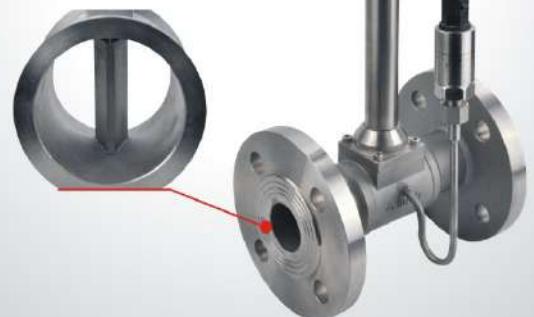
Table 3: Measured Medium

Measured Medium	Liquid	Common Gas	Saturated Steam	Superheated Steam	Others
Mark No.	1	2	3	4	5

Table 4: Connection Mode

Connection Mode	Flange Connection	Wafer Connection	Insertion Type	Others
Mark No.	1	2	3	4

LUGB Series Vortex Flow Meter



- Brand new digital processing calculation, enjoy excellent anti-vibration & anti-interference performance;
- Adopt built-in sensor structure, better protect the flow sensor;
- Flow sensor embedded temperature sensor, reduce the leakage point;
- Main body adopt precision casting technology, stronger swirl generating body;
- 40°C~350°C to choose;
- Flange DIN, ANSI, JIS standard selectable;
- HART, RS485 communication to choose;
- Main body SS304, SS316 material selectable;

HORIZONTAL WOLTMANN DETACHABLE DRY-DIAL COLD (HOT) WATER METER LXLG-50-500E LXLGR-50-300E



This Range of Water Meter is used to measure the total quantity of cold(hot) potable water which consumed in Industrial and mining enterprise passing through the pipeline.

Compliance with standard: Technical data conforms to ISO 4064 Class B standard for horizontal installation.

PRODUCT FEATURE

Woltmann Detachable Type.

Dry-dial, Magnetic drive.

Selected high quality material for steady & reliable characteristic, low head loss and enable use a long life span.

Vacuum sealed register ensures the dial kept free from fog and keep the reading clear in a long term service.

Universal use within this range detachable, without removing the meter from the pipeline for easy maintenance and replacement, good looking, etc.

Hot water meter and remote reading transmission system for option.

INSTALLATION REQUIREMENTS

1. The meter should be installed in horizontal position with the register face upwards
2. Pipeline must be flushed before installation.
3. The meter should be constantly full of water during operation.

MAXIMUM PERMISSIBLE ERROR

In the lower zone from Q_{min} inclusive up to but excluding Q_t is $\pm 5\%$

In the upper zone from Q_t indusive up to and including Q_s is $\pm 2\%$

(Hot Water Meter $\pm 3\%$)

WORKING CONDITION

Water temperature: $0^{\circ}\text{C} \leq t \leq 40^{\circ}\text{C}$ (For Cold Water Meter)

$0^{\circ}\text{C} \leq t \leq 90^{\circ}\text{C}$ (For Hot Water Meter)

Water Pressure: 1. ≤ 1.0 Mpa, 2. ≤ 1.6 Mpa

Electromagnetic Flowmeter

ART-DC Serials Standard Model

- Local Display
- 4-20mA output
- Flange Connection
- Lining: CR (DN500)
- Electrode :316L SS
- Accuracy: 1%R; 0.5R (opt.)
- Working temperature: <60°C

Turbine Flowmeter

TB1000 Standard Type

- Dia: DN4-200mm; Signal output: Pulse, Frequency, 4-20mA
- Tube Material: SS304, SS316
- Accuracy: 1.0% of rate, 0.5% of rate
- Connection: Thread (DN4-40mm), Flange (DN40-200mm)
- Battery Life Time; 3 Years
- Flow Display: Flow rate, Total Flow

Turbine Flowmeter

FTB700 Series

- Choices of PVC or Carbon Steel Body
- High-Accuracy Machined Turbine
- Internals Removable with Meter in Line
- Standard Meter Bodies are Flanged
- Optional 4-20 mA Transmitter Available-Blind or with rate and total display

Vortex Flowmeter

MSW 2000 Standard Thread Type

- Diameter: DN10-50mm
- Tube Material: SS304
- Liquids: Conductive Liquids
- Accuracy: 1.0% of rate (Span: 0.4-10m/s)
- Connection: Thread
- Power Supply: Battery Supply, 24VDC
- Flow display: Flowrate, Total Flow

Electromagnetic Flowmeter


- Light and compact version
- Flow velocity range: 0-12 m/s, precisely in flow appli
- High accuracy of +/-0.4% value of reading (or+/-0.2% value of reading)
- With forward/reverse flowrate measurement function

Sensor For Bulk Mass Flow

Optimass 2000

- Large diameter for bulk measurement and custody transfer of liquids and gasses
- Stainless steel measuring tubes (NACE Compliant)
- Super duplex option offering a maximum operating pressure of 180 barg

Electromagnetic Flowmeter

MAG 3000 Sanitary Type

- Diameter: DN25-DN100mm
- Accuracy: 0.5% of rate (Span: 0.5-10m/s) 0.5% FS (Span: 0-0.5m/s)
- Electrodes: 316L, Titanium, Tantalum HC, Monel, Pt-Ir6
- Lining: FEP; Sensor Housing Material: SS304
- Connection: Tri-Clamp, Thread (DIN11851)

Transit-Time Ultrasonic Flowmeter

Model AUF750 Series

- 4 Line LCD display w/flowrate, totalizer & signal condition
- Stores up 64 Day/Month/Year Totalizer daily value
- Wide range velocities of 0.01 +/-32 m/s
- Transducers for pipe size from 15 to 6000 mm
- High accuracy of +/-0.5% of reading
- Data logger function, include date, totalizer, signal condition

Ultrasonic Flowmeter Flange Type

Model AUF760 Series

- 4 Line LCD display w/flowrate, totalizer & signal condition
- Stores up 46 Day/Month/Year Totalizer daily value
- Batch control function
- Wide range velocities of 0.01 +/-32 m/s
- High accuracy of +/-1% of reading



Electromagnetic Flowmeter



Turbine Flowmeter



Turbine Flowmeter



AMP601 Series

- Flow Velocity range: 0-12 m/s, precise in low flow applic
- IDF Tri-Clamp or Union screw Connection
- Excellent for high pressure application
- PTFE Liner is suitable for vacuum tube
- High accuracy of +/-0.4% value of reading (or +/-0.2% value of reading)

- Mounting Style: Flange connection type
- Connection flange standard: JIS10K, ANSI150# JIS20K, DIN PN10
- Principal material: Case-carboneel
- Linings: PFA Teflon, Polyurethane, NBR
- Measuring tube materials: SUS304
- Cable connection part: 3/4-14NPT made s

ART-DCT Serials Battery Supply Serials

- Remote Type
- Local Display
- Battery Supply
- Without Output
- Length of Wire: < 10m
- Life of Battery: 3 Years

Rotameter



Portable Transit-Time Ultrasonic Flowmeter



Sensor For Mass Flow



Model AUF610 Series

Transducers for pipes size from 15 to 6000mm (1/2"-240")
Built-in magnet in transducers, no need for steady tool on metal pipe. Data logger which record flowrate date, total flow, signal condition..etc Response time less than 1 second 4 line LCD to display flowrate, totalizer signal condition..etc The flowmeter is designed in high accuracy +/-1.0% small sized (210*90*30) mm light-weight (500g) wide range Velocities (0.01~+/-32m/s) Ni-MH. Baterry last for over 10 hours continuous operation. Maximum temperature 160°C

Paddle Type Flow Switch



Coriolis Mass Flowmeter



Variable Area Flowmeter



- Application: Liquid
- Operating Temperature: 30-150X
- Contac Rating: 60W, 220Vac/200Vdc SPDT
- Operating Pressure: Max 355 PSIG
- Length: 1"-3"
- Housing Material: IP65, AL, Alloy, Ex d IIC T6

- Innovative twin tube design
- Temperature range -200°C to +400°C
- Optional Insulation/Heating Jacket
- Modular electronics concept: electronics and sensor are easy to replace

- Heating jacket design
- 4 digit flowrate & 8 digit totalizer
- Local indication without auxiliary power 4-20mA & cale pulse output
- Low pressure loss in gas and steam application
- Damper for Gas/Steam Application
- Consistent overall length

Ovalgear Meter



- Size: 10A-200A
- Material: Cast iron Cast Steel, Stainless Steel
- Connection: Flange type ~ JIS 10K RF (standard) ANSI, DIN (option)
- Accuracy: 0.5% of rate / 0.2% (option)
- Fluid Temperature: -20~+100°C/200°C (option)



Vortex Flowmeter

MSW 1000 Standard Flange Type

- . Diameter: DN10-200mm . Battery Life Time: 3 Years
- . Electrodes: SS316L . Flow Display: Flowrate,
- . Tube Material: SS304 . Total Flow
- . Liquids: Conductive Liquids
- . Accuracy: 1.0% of rate (Span: 0.4-10m/s)
- . Power Supply: Battery Supply, 24VDC

Electronic Oval Gear Flowmeter

OGM-25/40/50P & M-OGM-25E

Allumunium oval gear meter pulser with a pulse output function has the ability to handle a wide range of fluid viscosities with wexceptional levels of repeatability and durability, applying in the petroleum chemical, food industry, etc.

Electronic Oval Gear Flowmeter

M-JYM/L-1

The electronic oval gear flowmeter is for different viscosity liquid, such ad fuel oil, lubricating oil. High accuracy, low pressure loss, small and light, easy installation.

Mechanical Flowmeter

M-FM-120/M-FM-900

Flowmeter is to measure the exact quantity of the dispensed fuel. They are designed for noncommercial use only. These flow meters are reliable, easy to install and sample to calibrate on the work place. Alumunium metering chamber. 1 thread connection. Mechanical readout device with rotating wheels. 4 digital subtotals can be set to zero. 8 digits total readouts can not

Oval Gear Flowmeter

OGM-25/40/50

Alumunium oval gear meter has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability, applying in the petroleum, chemical, food industry, tec.

Turbine Type Flowmeter

M-TEM-25/M-TEM-40

High accuracy, Durable, Compact. Two cumulants.(resetting and accumulating) Gallon or liter option. Easy maintenance lithium battery supplying 9000 hours power

STD. Flange Lvl Transmitter

LMP-631

- . Pressure range: 0~0.1bar and 0~20bar
- . Excellent long-term stability
- . Small thermal effect
- . Flush diaphrgm
- . Application: Level monitoring in open tanks

Precision STD Hydros. Lvl Transmitter

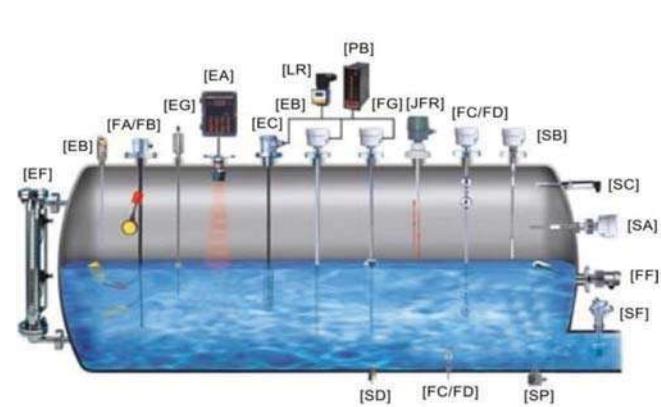
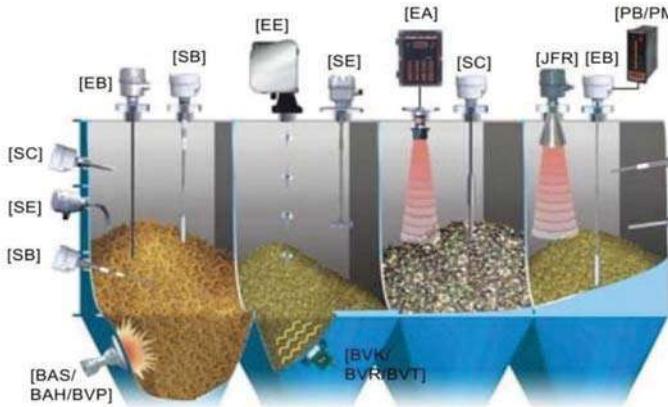
LMP633X

- . Pressure range: 0~0.7bar and 0~20bar
- . Small Dia. of 28mm;
- . Excellent repeatability and long term stability
- . Cable w/ integrated air tube for atmospheric
- . Application: Depth/ lvl measurement in wells and open waters, ground water lvl measurement

STD Hydrostatic Lvl Transmitter

LMP633

- . Pressure range: 0~0.1bar and 0~20bar
- . Small Dia. of 28mm;
- . Excellent repeatability and long term stability
- . Cable w/ integrated air tube for atmospheric
- . Application: Depth/ lvl measurement in wells and open waters, ground water lvl measurement



Electromechanical Lv. Measuring System



- . App: Ore, Clinker, Coal, Cement, Grain, Plastic Powder, Feed stu's, Granule & any liquid
- . Operating Temperature: -35°-80°C
- . Ambient Temperature: -35-60°C
- . Supply Voltage: 13-36 Vdc
- . Temp: Ambient (-20~70°C), Operating (-20~70°C)
- . Power Supply: 100~240Vac +/-10%, 50/60 Hz

Magneto Strictive Level Transmitter



- . App: LPG Liquid medium, Pharmaceutical, Chemical, Water Treatment, Oil Industry
- . Power Supply: Loop Power 24Vdc +/-10%
- . Op.Temp: -30°~200°C; Op.Press: 5~30Bar
- . Weight: 2.5kg (5.5Lb)
- . Conn: 1/2"PT, 3/4"PT
- . Enclosure: IP67 (IEC 60529); . Housing: SUS304, SUS316

Magnetic Float Level Transmitter



- . Material: Allumunium,PP+Fiber, PC
- . Resolution: +/-6.35 mm, +/-12.7 mm
- . Measuring Range: max 6M
- . Enclosure: IP65, Eex d IIBT4
- . Temperature: -20°C~200°C
- . Weight: 33-250g; Output: Loop power and 3 wire resistance
- . Housing: Explosion proff and anti corrosive

Bay-Pass Level Transmitter



- . Material: PP/PVDF, Titanium, SUS316
- . Op.Temperature: PP (80~400°C), PVDF (120~400°C)
- . Connecting: Flange, Screw, Ball Valve
- . Flag Indicator: 140~400°C
- . C-C Distance: Min.150mm Max.5800mm
- . Op.Pressure: 5~130Bar; Bottom End: Dual fl w/1/2"PT plug
- . Top End: Dual Flange with 1/2" PT plug

Mini By-Pass Level Transmitter



- . Material: SUS304/SUS316L
- . Op.Temperature: 140~200°C
- . Connecting: Flange, Slip Pipe
- . C-C Distance: Min. 150mm Max.3000mm
- . Op.Pressure: 140~400kg/cm3
- . Top End: Dual Flange with 1/4" PT plug/Cap
- . Bottom End: Dual Flange with 1/4" PT plug

RF-Capacitance Level Transmitter



- . Op.Voltage: 12~36Vdc; Op.Pressure: 15~40kg/cm2;
- . Op.Temp: -40~200°C; Ambient Temp.: -40~100°C
- . Output: 4-20mA resolution +/-2%
- . Acc: +/-1%FS(25%); Weight Material:Ceramic,SUS304,PTFE
- . Connection: 1" or 3"5kg/cm3 Flange/ 1"PT Screw
- . Weight: Approx 2.3~4.2kg (1M)
- . Probe Material: SUS304,SUS316, Coating

Radar level Transmitter



- . Operating Pressure: 0~64Bar
- . Housing Material: Alumunium
- . Measuring Range: Max 30m
- . Supply Voltage: 13~36Vdc
- . Temp: Ambient (-20~70°C), Operating (-20~70°C)
- . Power Consumption: 100mA/24Vdc
- . Output: 4-20mA; . Blind Distance: 500mm

Rotary Paddle Level Switch



- . Application: Powder (producing&processing) food plastic chemical, Medical, Mining and Ceramic
- . Material: IP65, ADC-12, Aluminum Alloy
- . Temperature: Up to 200X;
- . Contact capacity: SPDT 3A/250Vac
- . Torque: 0.5~1.0kg-cm
- . Power Consumption: 1.5 W, 3W, 11W/Dc24V

Mini Float Level Switch



- . Material: SUS 304, SUS 316, NBR, PP, PVDF, Nylon
- . Op. Temperature: Max 200°C
- . Connecting: Different connection types
- . C-C Distance: Min. 150mm Max.5800mm
- . Op. Pressure: 4~35kg/cm3
- . Application: Wafer fountain, Machinery, Electrical, Chemical, Marine, Test instrument, Food machinery

Pressure Level Transmitter



- . Application: Liquid measurement device, Control device
- . Housing Material: Allumunium, IP65
- . Pressure Range: 0.1~100 Bar
- . Supply Voltage: 13~36Vdc
- . Operating Temperature: Max 350°C
- . Connection: 1-1/2"PT, 1-1/2"x5kg/cm2, 10kg/cm2
- . Output: 4-20mA

Vibrating Probe Level Switch



- . Application: Powder, peanuts, Beans, Pellets, Soda, Styrofoam, Gravel finely, Chalk, etc.
- . Operating Pressure: 10 Bar
- . Lev. Sensor Housing: Alumunium/ IP65, Ex d IIC T3-T6
- . Probe Const: SUS304, SUS316, Teflon (Coat)
- . Mounting: 1"PT, Flange 1", Screw 1" PT/PF, Flange 1-6"DIN/JIS/ANSI
- . Power Supply: 20~250Vac/Vdc, 50/60Hz

Tuning Fork Level Switch



- . Application: Powder, Liquid, Solid
- . Operating Pressure: Max 40 Bar
- . Housing Material: SUS304, Alumunium/IP65, Ex d IIC T3-T6
- . Output: SPDT Relay, SSR Mosfet
- . Probe Const: SUS304,SUS316, Teflon (Coat)
- . Mounting: 1"PT, Flange 1", 2"Sanitary, 3/4"PT

Ultrasonic Level Transmitter

EA Series

- . Measuring Range: Liquid max 50M, Solid max 50M
- . Power Supply: 12~28Vdc, 100~240Vac, 50~60Hz
- . Op. Temperature: -40°C~+80°C (-40°F~176°F)
- . Mounting Screw: 1"NPT/2"NPT or 1"BSP/2"BSP
- . Weight: 2.5kg (5.5Lb)
- . Loop Current: 2 wire, 4 wire 4~20mA, 750 Ohm@24Vdc, @28Vdc
- . Sensor Housing: PP, PVDF, EA-10P, EA-10F

Loop Indicator

LR Series

- . Transmission: 4~20mA
- . Display: 4 Digits LCD display
- . Ranges: 4~20mA, 10~50mA
- . Connection: DIN 43650 plug
- . Operation Keys: 3 Keys

Side Mounting Float Switch

FF Series

- . Operating Temp.: -200~3500C
- . Material: IP65, SUS304, SUS316
- . Contact Capacity: Max5A.60W 250 Vac 200Vdc
- . Contact Element: Micro switch, Reed Switch
- . Applicable S.G: 0.8~0.65
- . Agency Approval: ABS, GL, NEPSI (Ex d)

Mini Size Magnetic Level Gauge

R, T, B-Series Large chamber Type

Gauge are designed in wide range including R series. T series. B series and illuminato type. Which meet various pressure, temperature to application by customer.

Feature:

- . High Quality; . Material: CS, SS304, SS316 are available
- . Low Cost; . Special material are available by requested

Magnetic Float Level Switch

FC/FD Series

- . Material: SUS304, SUS316, PVDF, PP, PVC
- . Op. Temperature: Max 200°C(SS)
- . Connecting: Flange, Screw
- . Application: Liquid processing, heat exchanger, hydraulic, power plant, oil, ship building and petrochemical
- . Housing: Explosion proof & anti corrosive

Optical Level Switch


- . NPN, PNP open collector output to energize relay or PLC
- . Outer material of PC, Polysulfone, SUS 304/316 for acidity and alkaline; applicable in grease, waste water, Liquid solution, Liquor, alcohol
- . Over-Current and reverse polarity protection
- . LED status indication
- . Application: Liquid leakage detection motor/ pump protector

Capacitance Level Switch

SA Series

- . Temperature: -20°C~800°C
- . Pressure: Max 25kg/cm3
- . Probe Material: SUS304, SUS316, PP, PVDF, PTFE, UPEcoating
- . Insulated Material: UPE, PTFE, Ceramic
- . Connection: Screw, Flange, PP, PVDF, SUS
- . Power Supply: 110/220Vac +/- 10%, 16~24Vdc
- . Housing Spec: Aluminum IP65

RF-Capacitance/Admittance Lv Switch

SB Series

- . Application: Storage tank, Well, reservoir, Medical tank, Acidic tank, Liquid, Powder; Housing Spec: Aluminum IP65
- . Operating Temp : -40°~550°C
- . Pressure: 20kg/cm3
- . Probe Material: UPE, PTFE, Ceramic, PEEK
- . Connection: 1/4", 3/4", 1"
- . Supply Volt: 115/230Vac +/-10% or 24Vdc +/-20%

Pressure Switch

SQ Series

- . Application: Hydraulic industry, Hydraulic detection, ABS Medical equipment, Pressure detection
- . Body Material: Zinc, Plated Steel, SUS316, Brass
- . Pressure Range: 0.2~100 Bar
- . Hex Length: 24mm, 27mm
- . Membrane Material: NBR, Viton, EPDM
- . Contact rating: 4A/42Vdc, 4A/220Vac

Smart Diff Press Lvl Transmitter

Model ADP9000L Series

- . Updating time of output current 200ms
- . 0.075 accuracy; Explosion proof & weather proof housing
- . Two years stability of 0.15%
- . Parameter setting by keypad directly
- . 4~20mA output plus direct digital HART communication
- . Automatic zero calibration by push-button

Digital Differential Pressure Transmitter

EC Series

- . Accuracy: +/-0.075%~0.1%
- . Capacitance sensor: Enhance over-pressure resistance capacity; . Measurement: Meter, Absolute, Negative Press.
- . Output: 4~20mA/ 2 wire
- . Housing Material: SUS304, SUS316/L, PC
- . Diaphragm Materials: Various
- . LCD Display: 6 digits; . Calibration: RS485 or HART

Diaphragm Pressure Regulator

DRV 10 Series
PR Series

The PR Series is a pressure regulating valve that are suitable for pressure control of air, gas, water, oil and similar fluids requiring constant outlet pressure between 10 and 150 psig

The DRV-10 is a LOW pressure regulating valve that is suitable for pressure control of air, gas, constant outlet pressure between 100 and 6000mmH2O

Remote Pressure Transmitter

**DMP3051-RT**

- . Pressure range: 0~6kPa and 0~6.8MPa
- . Excellent long-term stability
- . High overload pressure; Suitable for all the bad industry environment
- . Application: Process control, chemical industry

High Stable Piezoresistive Press Sensor

**LG190H**

- . Pressure range 0~20kPa...35MPa
- . Gauge, absolute, sealed gauge
- . Constant current power supply
- . Isolated construction, enable to measure various media; Dia19mm std press sensor; Full SS316L
- . Application: Industrial process control

General Quasi-Flush Diaph Press Trans

**SMP134**

- . Pressure range: 0~0.2bar and 0~700bar
- . Rugged and reliable under most conditions
- . Excellent long term stability
- . Small thermal effect
- . Application: Chemical industry, Foodstuff industry, Paper industry

General Pressure Transmitter

**SMP133**

- . Pressure range: 0~0.02bar and 0~600bar
- . Wide range of measuring pressure
- . Excellent long-term stability
- . Small thermal effect
- . Application: Petroleum, chemical industry, electric power & others process controls

STD Pressure Transmitter

**SMP2088**

- . Pressure range: 0~0.1bar and 0~600bar
- . Variety of certifications
- . Small thermal effect
- . Protection classification IP67
- . Application: The equipment of petroleum, chemical industry, metallurgy, pharmacy&others

Precision Compact Pressure Transmitter

**SMP131X**

- . Pressure range: 0~0.7bar and 0~35bar
- . Excellent long-term stability;Small thermal effect
- . CPU linearity: temperature compensation technology
- . Application: Leak detection, high-precision measurement and calculation

Refrigeration Pressure Transmitter

**SMP531**

- . Pressure range: 0~1bar and 0~100bar
- . Excellent long-term stability
- . Small thermal effect
- . Unique anti-condensation technology
- . Application: Refrigeration equipments

Pressure Gauge



PP Diaphragm Gauge



Model: P300

Dial: 63mm

Scale Range: 0~2kgf/cm² to 0~40kgf/cm²

Accuracy +/- 1.6% of Full Scale

Connection: 1/2" PT, NPT

Thread: Female Thread

Temperature: Working Temperature: Max 60°C

Case: PP antiimpact, all in one protect from acidification

Direct-Mount/remote diaphragm seal



The maximum temperature comes up to 280°C
Multiple connection modes-Flange style/ Tri-Clamp style
Multiple diaphragms/alternative connection material.
Vegetable oil can be used for fill fluid for food industry
Extreme hot and cold temperature
SS with PPC coating capillary
Oil-free treatment & Water-free treatment

Electrical Contact Pressure Gauge



Model: P510 Series

Dial Size: 100mm; Connection Type: 3/8", 1/2" BSPT
Scale Range (mbar, mmH2O): -76cmHg~4to0~1000 kgf/cm²
Working Pressure: Steady: 75% Full Scale
Over Range Protection: 130% of Full Scale
Blow Protection: Back, Rubber Disc
Accuracy: +/- 1.0% of Full Scale for Pressure Indication
Case&Cover: SS304; Element & Connection: 316SS

Diaphragm Seal Type Pressure Gauge



Model: P700 Series

Upper Flange: 304SS
Diaphragm: 316LSS
Dial Size: 63,100, 150mm
Range: 0~250kgf/cm²
Connection: 1/2" NPT
Options: Silicon Oil Filled

Digital Pressure Gauge

**Model:
P130**

- Dial Size: 75mm
- Scale Range: 0~1 bar to 0~1000 bar
- Connection 1/4" NPT
- Battery Type: 9V
- Accuracy: Class +/- 0.5 %
- Working Temperature: 10° C ~ 60° C
- Connection: 316SS; Case: Aluminum Alloy

Multi-Function Temp & Safety Speed Meter


- Keypad lock with Password to avoid Unexpected dialing
- Delay start
- Overload Delay
- RS-485 Modbus communication Interface

Controller For Dust Collector System


- Jet pulse timing of sequential controller: 0-0.2 seconds.
- Jet pulse interval: 2-180 seconds
- No switch contact in the circuit, operating life is half-eternity
- Power supply: 110/220 Vac, 24 Vdc
- Control points: 10, 20, 40 points

Safety Cable Pull Switch

SRS Series

- App.: Conventional Belt Conveyors, Stackers, Ship Load/Unload, Crane, Apron, Heavy Duty Limit Switch.
- Switching Capacity: 10A, 125/250Vac 1/2A 125Vdc SPDTx2
- Ambient Temp: -20° C~60° C
- Action Force: 3.4~5.4N.m (0.35~0.55kgf.m)
- Enclosure protection grade: IP67
- Enclosure Material: Die Cast Iron; Weight: Approx 2.9kg

Conveyor Belt Misalignment Switch

SRT Series

- App: Conventional Belt Conveyor, Shuttle Conveyor, Bucket Elevator, Packaging Lines, Stockpile, Crane, Shovel, Dragline, Ship Loading/Unloading, Horizontal Feed Systems
- Switch Capacity: 10A, 125/250Vac, 1/2A, 125Vdc SPDTx2
- Ambient Temperature: -20°~60° C; Weight: Approx 2.9kg
- Action Force: 49 +/- 9.8N (5+/-1 kgf.m)
- Enclosure Protection Grade: IP67; Die Cast ADC

Electric Actuator AOX Quick Opening Series

Modulating Type & Standard Type

- Electric current position transfer (output 4-20mA DC)
- Water proof actuator IP68, 10m, 250HR; Heater
- Potentiometer unit (1K-10K)
- Local Control Units
- Travel 120°, 180°, 270°
- Self reset when power failure

Electric Actuator

CHQ Explosion Proff Series

- Water proof actuator IP68, 10m, 250HR
- Potentiometer unit (1K-10K)
- Proportion control unit (Control signal 4-20mA)
- DC/1.5V/1-10V
- Electric current position transfer (output 4-20mA DC)
- High&Low Temperature resistance actuator (-10° C~+100° C)

Speed Monitor


- Maximum monitoring range: 1-999 rpm
- 7 seg LED display 0-999
- Alarm monitoring: low speed, stop reverse, blackout and overload
- Start up delay function allow motor to run up gradually
- Alarm delay function to avoid false alarm, which may caused by temporary slow down or load change

Microprocessor Bargraph Display


- Specially designed for universal app.mode
- Function are controlled by microprocessor
- 1-20/20 Output
- Naturel equipment and material detected

Cloth Seam Detector

PS Series

- App: Dyeing Machine, Pressure Vessel
- Relay Output: SPST 5A/250Vac
- Power Supply: 80~265Vac +/-15%, 56/60Hz
- Memory: Kept for 7 years
- Material: Controller (Plastic), Seam detector(Plastic), Magnet (Teflon); Drill Hole: 91.6 x 45.3mm
- Signal Cable: 22AWG 800C 300V 2 Core (isolation)

Programmable Sequential Controller


- Digital display: 2 Set
- Jet Pulse Timing: Adjustable
- Jet Pulse Interval: Adjustable
- Control point of solenoid: Adjustable
- Circular Cleaning: Continues
- Function controlled: Microprocessor

Programmable Vibrating Controller


- Specially designed for universal application modes
- Functions are controlled by microprocessor
- 1-10/20 Output
- Users can choose the best application mode based on the natures of the equipment and material detected
- Applied in sequential controller of vibrators.

Air Hammer



BAS/BAH/BVP Series

- . Body: Highly strengthened aluminum
- . Frequency: 2-6 Bar (low/continuous impact model)
- . Air Consumption: Min 90-730 t/min
- . Weight: 0.9-4.5 Kg
- . Application: Pipe accumulation, Life testing, get Rid of Blockage, Concrete injection, Defoaming while filling

Analogue Temperature Transmitter



THA33

- . Design for Pt100
- . Output signal 4~20mA tqo wires
- . Configurable measuring ranges
- . Large ambient temperature range
- . Compact and inexpensive

Thermowell



Selection od Thermowell

1. Material: Refer to the table
2. Model: Refer to the table
3. Bore Size Diameter (ID/ OD)
4. Insertion Length ("U")
5. Extention Length("T")

Connection Type: 1/2" BSPT

Industrial Bi-Metal Thermometer



Dial Size: 63, 75, 100mm
 Connection Type: 1/2" , 3/8" BSPT
 Options: Thermowell
 Scale range: -50~50°C to -50~100°C
 Case: 304SS, Window Glass, Stem OD: 6,8,10mm

Pneumatic Vibrator



BVK/BVR/BVT Series

- . Body: Special aluminum alloy, small size, light weight
- . Frequency: 2-6 Bar
- . Air Consumption: Min 230-300 t/min
- . Weight: 140-23000 g
- . Frequency and amplitude of vibration system: adjusted as required

FA/FB Series



- . Material: PVC, SUS 304, PP
- . Cable Spec: Neoprene, PVC, Silicone Cable
- . Measuring Range: max 6M
- . Actuation Angle: Min 10° +/- 2°
- . Temperature: -0°C~170°C
- . Pressure: 2~4.5kg/cm3
- . Contact Rating: 1A/230Vac~15A/250Vac

Integrated Temperature Transmitter



LG200-K

- . Thermal resistance, thermocouple sensor
- . Match intelligent type, users can customize measuring range
- . Safe and reliable, excellent EMC
- . Application: Process industry, petrochemical, chemical industry, electric power, steel, cement

Thread Type Thermowells



Welded Type: WST, WLT

Drilled bar stock type: BST, BLT, BTT, BTLT, BPST, BPLT
 Material: SS304, SS316, SS316L, Monel, Hastelloy C276
 Brass, Carbon Steel, Titanium (special material available upon request)
 Process con: W_2~ male available (special thread upon request); Instrument connection: WNPT~~NPT Female available (special thread upon request)

Thermocouple Assemblies



Head housing: IP65 & IP67

Explosion proff available. R type available. Insulator dial size: 04.0-06.0mm on request. Insulated material: Ceramic Protection tube material: Metal, Non-Metal. Refer to protection tube table. Working temp. Limited: -200~1700°C according to applicable standards table. Measuring junction type: Grounded type, Ungrounded type/ Separated Type

Temperature Type Thermowells



Drilled bar stock type: BSF, BLF, BTF, BTLF, BPSF, BPLF
 Material: SS304, SS316, SS316L, Monel, Hastelloy C276
 Brass, Carbon Steel, Titanium (special material available upon request)
 Process con: W_4N flange available ANSI,DIN,JIS available (special flange upon request). Instrument connection: WNPT Female available (special thread upon request)

Fully Stainless Capillary Thermometer



Dial Size: 100,150mm
 Connection: 1/2" BSPT
 Options: Thermowell, Oil Filled
 Scale range: -50~50°C to -50~100°C
 Case: 304SS, Window Glass, Stem OD: 6,8,10mm

Glass Thermometer



Connection Type: 1/2" BSPT
 Stem Length: 21/2", 4", 6"
 Options: Thermowell
 Scale Range: -30~50°C
 Case: Nylon Fiber
 Temperature Element: Alcohol
 Stem: Brass; Stem OD: 10mm

Temperature Gauges

BIRMETAL THERMOMETERS

- . Suitable for measuring high precision temperature of media with Causity with stem and screw-retained thermo well, screwed connection, stainless steel case.
- . Connection: NPT, PT, BSP

Thermal Dispersion Flow Switch


- . Apply: Water power plant, HVAC system, steel making petrochemical, shipyard, food, pharmaceutical, semiconductor, cooling pipe; Conn: G1/2, G1/4, NPT1/2
- . Operating pressure: Max 100Bar
- . Ambient & Operating Temp: -20°~80°C
- . Housing material: SUS304, SUS316L, PC
- . Output Alarm: Relay 5A/250Vac; Powerconsump: 50-60mA

Temperature Switch Explosion Proof


CLASS I, GROUPS 0, C & D
CLASS I, GROUPS E, F & G NEMA 4, 7, 9
Temperature: -200 - +650°C

2 Valve Manifold PN 420 DN 5


- . Body: steel phosphatized
- . External stem thread
- . Stem with cold rolled surface, back seat and non-rotating needle tip
- . Special types are available
- . The manifolds can be supplied according to NACE-standard

3 Valve Manifold PN 420 DN 5


- . Body: die-pressed part
- . External stem thread
- . Stem with cold rolled surface, back seat and non-rotating needle tip
- . Special types are available
- . The manifolds can be supplied according to NACE-standard

Shut-off Valve PN400 DN 5


- . External stem thread
- . Stem with cold rolled surface, with back seat
- . Replaceable soft seat, roddable
- . Valve body made of steel (C 22.8) on request
- . Special types are available on request
- . The valves can be supplied according to NACE-standard

Water Syphon


for pressure gauges DIN 16 282
circular-shaped ('pigtail' for vertical tapping
 . Surface: Type 1 to 4 steel phosphatized Type 5 oiled
. Range of application: For liquids, gas or steam*
 . Other materials, pressure/ temperature ratings & connections onrequest.

Monoflanges

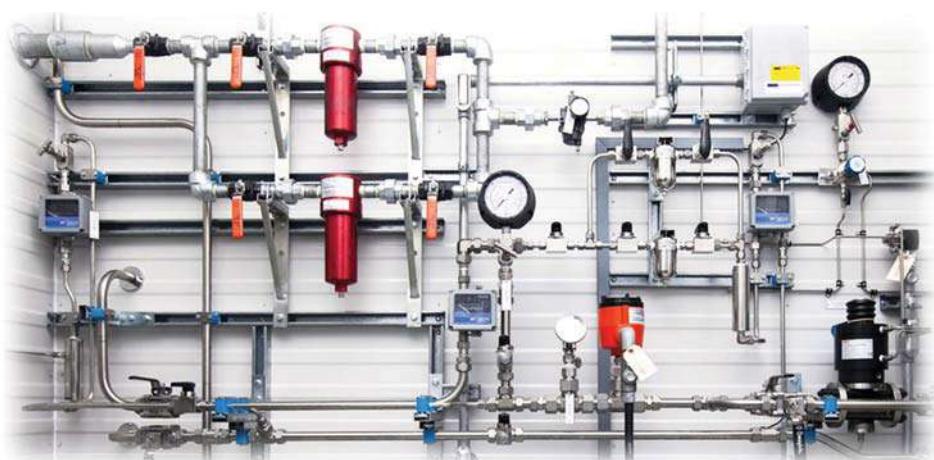

- . ASME B16.5 flange connections; Flange size 1/2" to 2" (DN15 to DN50); Flange class 150 to 2.500
- . Outlet connection 1/2 NPT female
- . Vent connection 1/2 NPT female; Press. tested EN 12266
- . Seat metal/ Metal; Vent valve w anti-tamper head unit
- . Packing PTFE or graphite; ISO 10497/API607 fire tested
- . Material of construction 316/316L

Pressure Gauges Cocks Female/Female


. Range of application:
 For liquids, gas or steam, from -10°C up to + 50°C
 For pressure gauges with sealing washer according to DIN EN 837-1
 . Plastic handle

Pressure Gauges Valves


Pressure Gauge Valves DIN 16 270
. Body: brass: pressed part;
 steel/ stainless steel: die pressed part
. Surface: Steel phosphatized
 . Internal stem thread
 . Stem with cold rolled surface and non-rotating needle tip



2 Valve Manifolds for Direct Mounting

3 Valve Manifolds for Remote Mounting

5 Valve Manifolds for Remote Mounting


- . PN 420 DN 5 for Direct mounting to pressure transmitters
- . External stem thread
- . Stem with cold rolled surface, back seat & non-rotating needle tip
- . The manifolds can be supplied according to NACE-standard

- . PN420 DN 5 for remote mounting
- . External stem thread
- . Stem with cold rolled surface, back seat & non-rotating needle tip
- . Special types are available
- . The manifolds can be supplied according to NACE-standard

- . PN420 DN 5 Type 1b-for remote mounting
- . External stem thread
- . Stem with cold rolled surface, back seat and non-rotating needle tip
- . Special type are available
- . The manifolds can be supplied according to NACE-standard

Gauges Snubbers


- . Surface: steel phosphatized
- . Max. Temperature: 120°C
- . Also available with connection thread G 1/4, G 3/8 and 1/4 NPT
- . The brass and stainless steel types can be supplied for oxygen

Pressure Instrument Accessories


- . **Water syphon for pressure gauges DIN 16 282 U-shaped for horizontal pressure tapping**
- . Surface: Type 1 to 4 steel phosphatized; Type 5 oiled
- . Range of application: For liquids, gas or steam
- . Other materials, pressure/ temperature ratings & conn on request

Gauges Protectors


- . Body: brass;pressed part;stainless steel: die-pressedpart
- . App: Gauge protectors close at a set point protecting gauges from overrange pressures.
- . Function: By reaching the adjusted pressure, the valve closes automatically and blocks the flow to the pressure instrument. After decrease of pressure by about 25% below the closing pressure, the valve opens again.

Shut-Off Valves PN100 DN 4 DVGW tested


- . Internal stem thread
- . Stem with cold rolled surface and non-rotating needle tip
- . Basis of type examination: DVGW VP 308
- . Max.operating pressure: 100 bar
- . Temperature: -20°C up to + 60°C
- . For all kinds of gas in accordance with DVGW-list numb G 260

Integral Manifolds for Rosemount Transmitter


- also available with soft tip in KEL-F® (PCTFE) or POM
- Packing PTFE or graphite
- Available with material certificates according to EN 10 204 / 3.1
- 100% pressure tested
- For any other requirements please consult the factory

Angle Seat Valve DN 8, PN 160


- . Valves with special welding connections optional
- . Body: die-pressed part
- . Surface: steel phosphatized
- . Internal or external stem thread
- . Replaceable valve seat
- . Stem with cold rolled surface, back seat and non-rotating needle tip

