pFlow

ULTRASONIC

Gentos Measurement& Control Co., Ltd

FLOWMETER

PRODUCT CATALOG

Pflow is the national branch of Gentos Measurement & Control Co. Ltd. Gentos focus on ultrasonic flow meter since 1993.Now we have formed our production system, the ultrasonic flow meter as the leader.

1993 Established in shenzhen , the city of science and technology . the birthplace of many high-tech companies such as HUAWEI, TENCENT and GENTOS.

1999 Obtained the Building Automation qualification certificate.

2004 Completed the fuel test standard “Rockets Attitude Control” of China Aerospace.

2009 Innovated Picofly technology , applied Picofly technology into ultrasonic flowmeter.

2011 Cooperation with HongKong polytechnic university and Harbin institute of technology university to prove Picofly in very fine time resolution.

2016 Participated in HANNOVER MESSE with the new products , Compound Multipath ultrasonic flowmeter D348DS plus and Smart Crystal F200.

2017 Gentos has achieved application of The Ultrasonic Mass Flow Measurement on China Air Force.

2018 Develop smart air conditioning, smart water strategy, and product + IOT

2019 Invited to participate in the 23rd National Invention Exhibitionone--B&R and the BRICs Technology Development and Technology Innovation Competition, and won the silver award.

CERTIFICATE

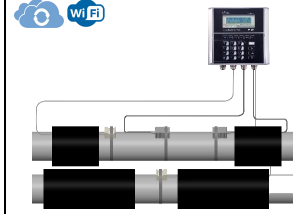
R&D CENTER

ENGINEERING TEAM

PRODUCTS

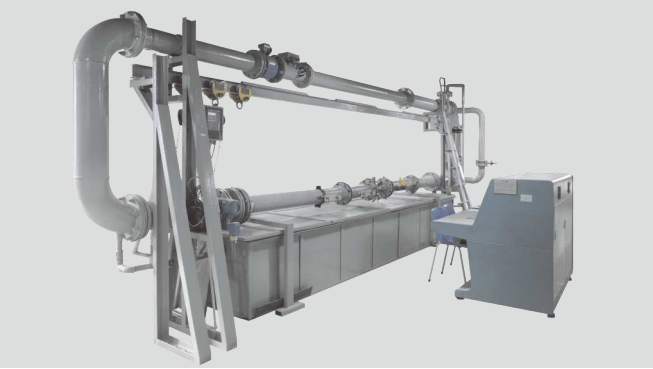
Model	D116	D118	D118i	P117	P118i	E3
Flow Velocity	0.03 ~ ±16ft/s (0.01 ~ ±5m/s)	0.03 ~ ±40ft/s (0.01~ ±12m/s)	0.03 ~ ±40ft/s (0.01~ ±12m/s)	±0.03 ~ ±20 ft/s (±0.01~ ±6 m/s)	0.03~40ft/s (0.01~12m/s)	0.098 ~ ±16ft/s (0.03m/s ~ ±5m/s)
Pipe size	1"~48" (25mm ~ 1200mm)	1″~200″(25mm ~ 5000mm)	1″~200″(25mm ~ 5000mm)	1"~48" (25mm ~ 1200mm)	1″~240″ (25 ~ 6000mm)	DN20 ~ DN80(optional)
Accuracy	+/-1.0%	+/-0.5%	+/-0.5%	+/-1.0%	+/-0.5%	+/-2.0%
Repeatability	0.30%	0.15%	0.10%	0.30%	0.15%	0.40%
Application	water, sound-conducting liquid	water, fuel, oil and chemicals	water, fuel, oil and chemicals	water, fuel, oil and chemicals	water, fuel, oil and chemicals	water, sound-conducting liquid
Pipe Material	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	Carbon steel, Stainless steel, PVC, Copper (optional)
I/O	1. OCT Pulse output:0~5000Hz. 2. Analog output:4~20mA,max load 750Ω. 3.Relay 4.RS485 Modbus	1. Analog output: 4~20mA, max load 750Ω. 2. Pulse output: 0~9999Hz, OCT 3. Realy output: max. frequency 1Hz(1A@125VAC or 2A@30VDC) 4.RS485 & RS232 5.Analog input	1. Analog output: 4~20mA, max load 750Ω. 2. Pulse output: 0~9999Hz, OCT 3. Realy output 4. RS485A/RS485B/RS232 5. Analog input 6. RTD input	1. Analog output: 4-20mA 2. RS485	1. Analog output: 4-20mA 2. RS485 3. Pulse output: OCT 4. Relay	Standard: WiFi/TTL Optional: 4-20mA/TTL, RS485/TTL, OCT/Relay
Power supply	10 ~ 36VDC/1A	90 ~ 245 VAC (48 ~ 63 Hz) Or 10 ~ 36 VDC.	90 ~ 245 VAC (48 ~ 63 Hz) Or 10 ~ 36 VDC.	Rechargeable Lithium Battery Power	Rechargeable Lithium Battery Power	10～36VDC/500mA
Temperature	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~176℉(0℃~80℃)	Ambient: 14F°~122F°(-10℃~50℃) Fluid: -40F°~176F°(-40℃~80℃)	Ambient: 14F°~122F°(-10℃~50℃) Fluid:-40F°~176F°(-40℃~80℃)	Ambient: 14F°~122F°(-10℃~50℃) Fluid: -40F°~176F°(-40℃~80℃)	Ambient: 14F°~122F°(-10℃~50℃) Fluid: -40F°~176F°(-40℃~80℃)	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~140℉(0℃~60℃)
Transmitter	PC/ABS, IP65	Die-cast aluminum, IP65	Die-cast aluminum, IP65	NEMA13(IP54)	NEMA13(IP54)	IP54
Transducer	Encapsulated design, IP68	Encapsulated design, IP68	Encapsulated design, IP68	Encapsulated design, IP68	Encapsulated design, IP68	IP54
Transducer cable	Standard cable length: 30ft(9m)	Standard / Maximum cable length: 30ft / 1000ft (9m/305 m).	Standard cable length: 30ft(9m)	Standard cable length: 10ft	Standard cable length: 10ft	φ5 6 core electric cable，standard length：2m
Features	Clamp-on Transducers; Fixed-mounted meter; Temp. sensors available	Clamp-on Transducers; Fixed-mounted meter; High temp. version available	Clamp-on Transducers; Insertion Transducers; Fixed-mounted meter; High temp. version available	Clamp-on Transducers; Portable & Easy to carry;	Clamp-on Transducers; Portable & Easy to carry; High temp. version available Temp. sensors available	Cloud Data Storage System Heat Consumption Measurement
Product View						

PRODUCTS

Model	E5	E8	F2	F3	F5	F8
Flow Velocity	0.03 ~ ±16ft/s (0.01 ~ ±5m/s)	0.03 ~ ±40ft/s (0.01~ ±12m/s)	0.098 ~ ±16ft/s (0.03m/s ~ ±5m/s)	0.098 ~ ±16ft/s (0.3m/s ~ ±5m/s)	0.03 ~ ±16ft/s (0.01 ~ ±5m/s)	0.03 ~ ±40ft/s (0.01~ ±12m/s)
Pipe size	1"~48" (25mm ~ 1200mm)	1"~200"(25mm ~ 5000mm)	DN20 ~ DN80(optional)	DN20 ~ DN80(optional)	1"~48" (25mm ~ 1200mm)	1"~200"(25mm ~ 5000mm)
Accuracy	+/-1.0%	+/-0.5%	+/-2.0%	+/-2.0%	+/-1.0%	+/-0.5%
Repeatability	0.30%	0.15%	0.40%	0.40%	0.30%	0.15%
Application	water, sound-conducting liquid	water, fuel, oil and chemicals	water, sound-conducting liquid	water, sound-conducting liquid	water, sound-conducting liquid	water, fuel, oil and chemicals
Pipe Material	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	Carbon steel, Stainless steel, PVC, Copper (optional)	Carbon steel, Stainless steel, PVC, Copper (optional)	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other	1. Carbon Steel 2. PVC 3. Stainless Steel 4. Aluminum 5. Copper 6. Ductile Iron 7. Cast Iron 8. Other
I/O	1. OCT Pulse output:0~5000Hz. 2. Analog output:4~20mA,max load 750Ω. 3.Relay output 4.RS485/RS232 5.RTD input 6.WiFi	1. Analog output: 4~20mA, max load 750Ω. 2. Pulse output: 0~9999Hz, OCT 3. Realy output 4.RS485/RS232 5.RTD input 6.WiFi	Standard: WiFi/TTL Optional: 4-20mA/TTL, RS485/TTL, OCT/Relay	Standard: WiFi/TTL Optional: 4-20mA/TTL, RS485/TTL, OCT/Relay	1. OCT Pulse output:0~5000Hz. 2. Analog output: 4~20mA,max load 750Ω. 3.Relay output 4.RS485/RS232 5.WiFi	1. Analog output: 4~20mA, max load 750Ω. 2. Pulse output: 0~9999Hz, OCT 3. Realy output 4.RS485/RS232 5.WiFi
Power supply	10~36VDC/1A	90 to 245 VAC, 48 to 63 Hz. Or 10 to 36VDC	10～36VDC/500mA	10～36VDC/500mA	10~36VDC/1A	90 to 245 VAC, 48 to 63 Hz. Or 10 to 36VDC
Temperature	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~176℉(0℃~80℃)	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~176℉(0℃~80℃)	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~140℉(0℃~60℃)	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~140℉(0℃~60℃)	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~176℉(0℃~80℃)	Ambient: 14℉~122℉(-10℃~50℃) Fluid: 32℉~176℉(0℃~80℃)
Transmitter	PC/ABS,IP65.	NEMA 4X (IP65), Die-cast	IP54	IP54	PC/ABS,IP65.	NEMA 4X (IP65), Die-cast
Transducer	Encapsulated design,IP68	Encapsulated design,IP68	Clamp on	Clamp on	Encapsulated design,IP68.	Encapsulated design
Transducer cable	Standard cable length:30ft(9m).	Standard/maximum cable length:30ft/1000ft(9m/305m)	φ5 six core cable, standard length: 2m	φ5 six core cable, standard length: 2m	Standard cable length:30ft(9m).	Standard/maximum cable length:30ft/1000ft(9m/305m)
Features	Clamp-on Transducers; Fixed-mounted meter; Clound service; Heat measurement High temp. version available	Clamp-on Transducers; Fixed-mounted meter; Clound service; Heat measurement; High temp. version available	Cloud Data Storage System	Cloud Data Storage System	Clamp-on Transducers; Fixed-mounted meter; Clound service;	Clamp-on Transducers; Fixed-mounted meter; Clound service; High temp. version available
Product View						

QUALITY CONTROL

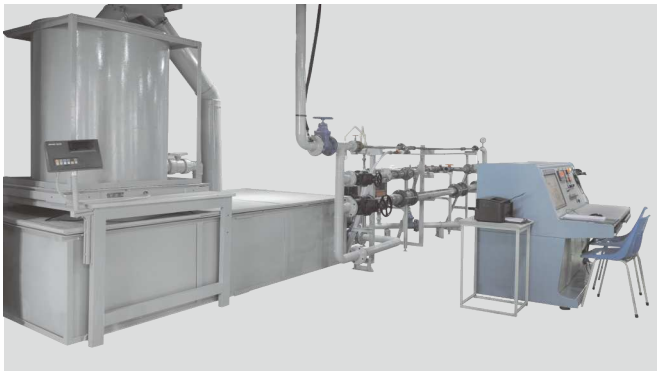
CALIBRATION



Axial double-loop flow calibration device adopts 3488D multipath ultrasonic flow meter as a master meter. The master meter takes our PICOFLY technology, the resolution has reached 0.01 nanoseconds, realize single point repeatability of 0.04%.

Heat meter flow calibration system can be used to calibrate the hot (cold) flowmeter DN15~DN50, the measuring medium temperature which can be maintained at 50℃ + 5℃.

DN100 axial flow calibration device is mainly used in volume production product calibration, the calibration device can be inspection 6 sets flowmeter at the same time.



Liquid Flow calibration device adopts weighing method to calibrate, suitable for flowmeter in DN8 ~ DN80.

HIGH-TEMP AGING WORK

In 55 centigrade high temperature environment at least 72 hours to make the high-temp aging work .

Gentos Measurement & Control Co., Ltd.

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