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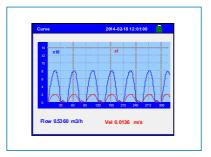
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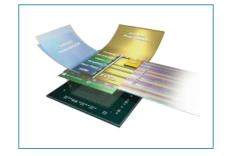
The product is an integrated structure design, which is easy to install through four screws, andhas special insulation on the outside. The jacket reduces the hassle of field installation. It is unnecessary to cut the pipe, stop flow for installation and there is no pressure loss. F3 also hasrich network functions, supporting Wi-Fi, 4-20mA output, etc, with Cloud data storage and analysis management system. You can have access to "Gentos iCloud", or customize the versionthat connects to your own cloud system/intelligent management system, realized unattended and unified administration.

### **TCT Technology**

The TCT (Time Comb Technology) is a kind of technology used to measure signal flight time. The technology is invented by Gentos Measurement & Control Co., Ltd. in 2019. Since the technology was invented, it has achieved the time measurement accuracy of 50ps (TVT is 130ps), and has outstanding characteristics of high accuracy, high stability and low cost.



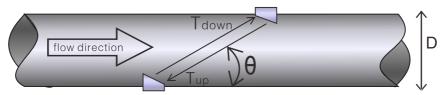




### **Working Principle**

When the ultrasonic signal is transmitted and received through the moving liquid, there will be a difference between the upstream and downstream transit time, which can be used to calculate flow and velocity.

Downstream transducer



Downstream transducer

### **Installation Steps**

The F3 clip on meter is measured with an integrated design. The installation is very simple. F3 is directly clipped on the pipe section, and tightened the screw to turn on the power flow measurement.









	Performance specifications				
Flow range	$\pm 0.098 ft/s \sim \pm 16 ft/s \ (\pm 0.03 m/s \sim \pm 5 m/s)$				
Accuracy	±2.0%				
Pipe size	DN20 DN25 DN32 DN40 DN50 DN65 DN80				
Fluid	Water				
Pipe material	PVC, Carbon Steel, Stainless Steel, Copper				
	Function specifications				
Outputs	Analog output: 4~20mA, max load 750 $\Omega$ .				
Communication interface	WIFI(standard), TTF/RS485(optional), Cannot be used at the same tine; Support FUJI protocol and MODBUS protocol				
Power supply	10~36VDC/500mA				
Temperature	Transmitter: $14^{\circ}F^{\sim}122^{\circ}F(-10^{\circ}C^{\sim}50^{\circ}C)$ Transducer measurement medium: $32^{\circ}F^{\sim}140^{\circ}F(0^{\circ}C^{\sim}60^{\circ}C)$				
Humidity	Up to 99% RH,non-condensing				
Physical specifications					
Transmitter	PC/ABS				
Keyboard	3 touch Keys				
Display	1.44''LCD				
Protection Rate	lp54				
Cable Lenght	Power cable: standard lenght 2m				

	Dimer	nsions Uni	t:mm Pipe	e material	(PVC, Carb	on Steel,	Stainless Steel)	
Model	Ø	W	W1	L	L1	Н	Flow Range	Weight(kg)
DN20	25~29	60	51	105	115	121	0.04~6	0.68
DIVZU	21~25	60	51	105	115	121	0.04 0	0.08
DN25	32~36	60	56	105	115	128	0.05~9	0.71
DIVZ3	28~32	60	56	105	115	128	0.03 9	0.71
DN32	39~43	60	63	105	115	135	0.09~15	0.82
DN32	35~39	60	63	105	115	135	0.09 13	0.82
DN40	50~54	60	74	105	115	146	0.13~23	0.96
DIV40	46~50	60	74	105	115	146	0.13 23	0.90
DN50	63~67	60	89	105	115	159	0.20~35	1.1
DNO	59~63	60	89	105	115	159	0.20 33	1.1
	76~80	60	102	105	115	172	0.35~60	1.6
DN65	72-76	60	102	105	115	172	0.33 00	
DN80	87~91	60	113	105	115	183	0.55~90	2.0
טווסט	83~87	60	113	105	115	183	0.55 90	

		Dir	mensions	Unit:mm l	Pipe mate	rial(Coppe	er)	
Model	Ø	W	W1	L	L1	Н	Flow Range	Weight(kg)
DN20	25~29	60	51	105	115	121	0.04~6	0.68
DNZU	21~25	60	51	105	115	121	0.04 6	0.08
DN25	25~29	60	56	105	115	128	0.05~9	0.71
DNZS	21~25	60	56	105	115	128	0.03 9	0.71
DN32	32~36	60	63	105	115	135	0.09~15	0.82
DN32	28~32	60	63	105	115	135	0.09 13	0.82
DN40	39~43	60	74	105	115	146	0.13~23	0.96
DN40	35~39	60	74	105	115	146	0.13 23	0.96
DN50	50~54	60	89	105	115	159	0.20~35	1.1
DNO	46~50	60	89	105	115	159	0.20 33	1.1
DN65	63~67	60	102	105	115	172	0.35~60	1.6
כסווט	59~63	60	102	105	115	172	0.33 00	
DN80	76~80	60	113	105	115	183	0.55~90	2.0
טווטט	72~76	60	113	105	115	183	0.55 90	2.0

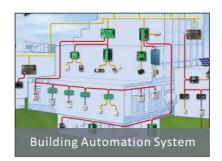
## **Building Energy Saving**



# **Applications**

It can be widely used in HVAC system, building automation system, farming irrigation system, residential water supply system, cleaning system, recirculating aquaculture system(RAS), etc.







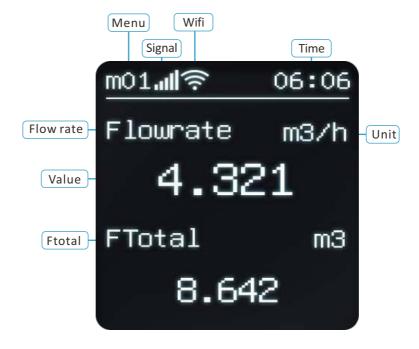


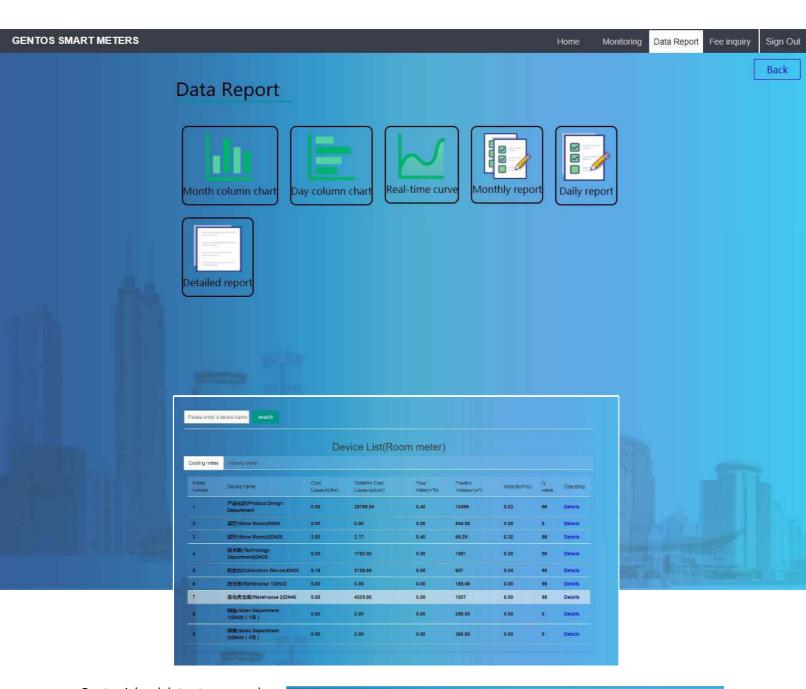






Clamp-on type ultrasonic flow meter is for the difficulty of installing a conventional model in an old building. It features with clamp-on measurement, no need to cut pipes and to shut down machines. Easy operation menu Displaying Instantaneous Flow and Selecting Flow Units Optional unit, m3/h, I/m, gpm(UK), cfm, gpm(USA)





Gentos icloud data storage and analysis Management functions. Data collection can meet different working conditions. Scan the QR code and experience the system!



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Totalizer Cool Cap Positive Totalizer	pacity				1782.00 1091.00	kwh m3		

Experience Account ID: gentos Password: gentos0755

# **Ordering Information**

	Description
F3	Digital Correlation Transit Time Flowmeter Installation method: Clamp-on Flow Range: ±0.098ft/s ~ ±16ft/s (±0.03m/s ~ ±5m/s) Accuracy: ±2.0% (±1.6ft/s~±16ft/s) (±0.5m/s~±5m/s) Pipe Size Range: DN20 DN25 DN32 DN40 DN50 DN65 DN80 Keyboard:3 touch Keys Display: 1.44" LCD Power supply: 10~36VDC/500mA Protection Rate: IP54 Output: WIFI,4~20mADC, OCT pulse output, relay output Communication: RS-485 terminal Modbus Protocol
	Output
1	WIFI(Standard)
2	4-20mA(optional)
3	RS-485(optional)
4	TTL(optional)
	Transmitter enclosure area classification
1	Ip54, PC/ABS enclosure
	Type of transducers
СР	Clamp on transducer, Operating temperature: 32 $^{\circ}F^{\sim}140 ^{\circ}F(0 ^{\circ}C^{\sim}60 ^{\circ}C)$
	Transducer Cable Length
07	Standard 7ft (2m)
	Pipe Size
DN	DN20 DN25 DN32 DN40 DN50 DN65 DN80
	Model: F3-1-1-CP-07-DN(pipe size) n: Standard enclosure with Clamp-on transducers, WIFI, 2m cable.

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