EST3607CAN Fieldbus Pressure Transmitter

- ✓ Pressure type: Gauge/Seal Gauge Pressure
- ✓ CAN Fieldbus output/CANOpen/J1939
- ✓ Range: 0~0.07...1000 bar
- ✓ Accuracy: ±0.25%F.S/0.5%/FS/1.0%/FS
- ✓ Sampling rate: from 10 times/s to 100 times/s
- ✓ Operating temperature: -40℃~85℃
- ✓ Communication distance: 10Km
- ✓ OEM: Available

Applications

Hydrologic monitoring | Constant pressure water supply | Tailwater elevation | Wastewater treatment | Frequency water supply

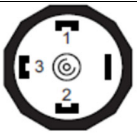
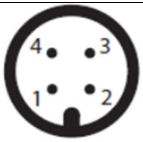
Product Introduction

EST3607 line features high reliability, stability, and accuracy. The product is widely used for the measurements of gas and liquid, such as water and oil. With a built-in CAN fieldbus controller and transceiver, EST3607 enables CANBUS-based two-way communication based on protocol of CANOpen or J1939. The longest communication distance is up to 10km, and the communication rate is up to 1Mbps, sampling rate can be 10-times per second to 100- times per second.

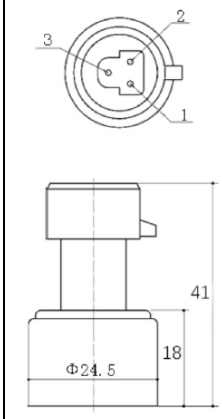
Highlight features

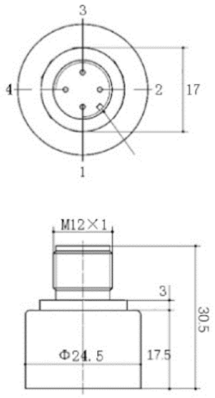
- CAN 2.0 bus supports the DS301 version of the CANopen protocol & J1939.
- Process connection of G1/4，7/16-20UNF-2B (F)，7/16-20UNF-2A (M)，NPT1/4，G1/2
- Data transmission rate up to 125 Kbps with high real-time performance.
- Transmission distance up to 10 km, capable of operating in high noise interference environments.
- Features priority and arbitration functions, allowing for multiple control modules to be mounted and form a multi-master local network.
- Reliable error handling with strong error detection capabilities; can automatically retransmit information when corrupted; automatically exits the bus during severe errors.

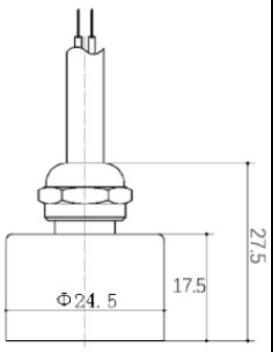
Electrical /Process Connections

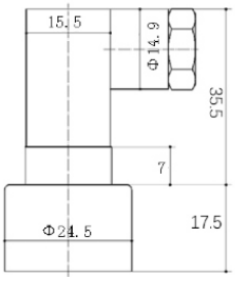
Electrical connection								
DIN43650-C			M12X4P			Cable outlet		
Wire	CAN		Wires	CAN		Wires	CAN	
1	Power (U+)		1	Power (U+)		Red	Power (U+)	
2	GND		2	CANH		Black	GND	
3	CANH		3	GND		Green	CANH	
⏚	CANL		4	CANL		White	CANL	

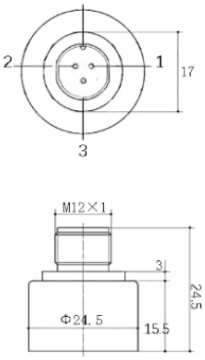
Packard	M12X4P	Cable outlet	DIN43650-C	GX12-

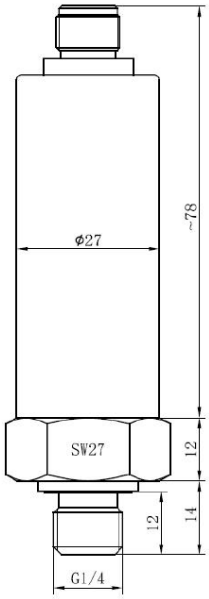


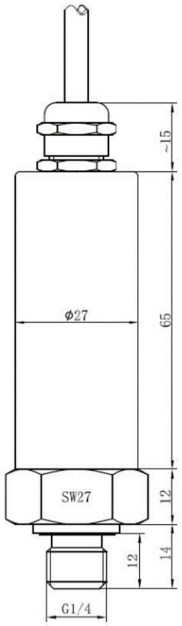


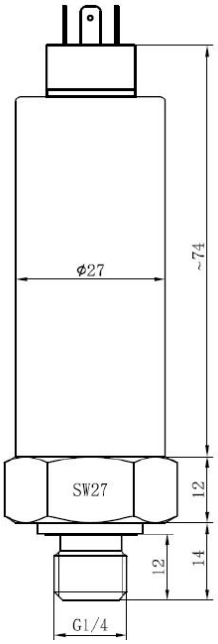


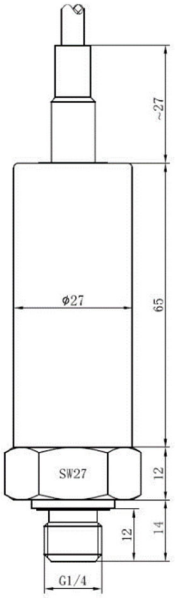




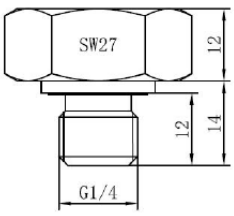


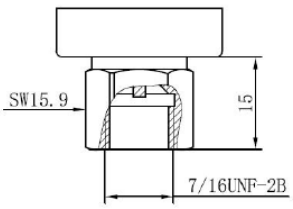


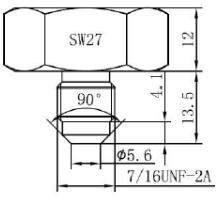


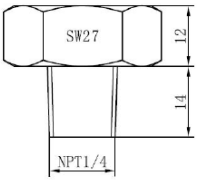


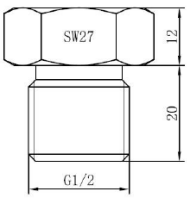
C1		C2			C3		C4		C5	
Current	Voltage	Current	Voltage	I2C	Current	Voltage	Current	Voltage	Current	Voltage
2-wire	3-wire	2-wire	3-wire	4-	2-wire	3-wire	2-wire	3-wire	2-wire	3-wire
Process connection										
G1/4		7/16-20UNF-2B			7/16-20UNF-2A		NPT1/4		G1/2	











General Instruction and Datasheet

Measuring your business

EST3607 GID-3-EV03.4

Specifications

Range	0…0.07~0…1000 bar; Gauge/Sealed Gauge		Response Time	(10%～90%)≤10ms
Output	CAN 2.0/; CANOPEN/J1939 / DS301v		Over-pressure	≥150%F.S
Power Supply	(5±0.25) VDC	10VDC～30VDC	Burst-pressure	≥200%F.S, 1000 bar (max)
Working Current	≤ 30mA	≤ 30mA	Process Connection	G1/4, 7/16-20UNF-2B-Female，
Voltage	12VDC	30VDC	Electrical Connection	DIN43650-C,M12 ×1, Water-proof
Inverse Voltage	12VDC	-30VDC	O-Ring for wetted part	NBR; FKM
Accuracy @25C	±0.5%F.S (default), ±0.25%(optional)		MOC/Housing	SS304; SS316L
Temp. Compensation	0℃～50℃		Insulation Resistance	≥100MΩ@100VDC
Working Temp.	-30℃～80℃, -10℃～70℃(Cable)		Vibration	10g, 5~2000Hz
Medium Temp.	-30～120℃		Shock	20g, 11ms Half sine
Storage Temp.	-40℃～85℃, -20℃～85℃(Cable)		Ingress Protection	≥IP65
Long-term Stability	±0.25%FS/Y		Sampling Rate	10 times /s~100 times/s

1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa

Ordering Procedure

EST	Pressure transducer for air compressor industry

Code	Model
3607	A/B/C

Code	Span
X	0~X bar

Code	Output Type
CO	CAN Open
CJ	J1939

Code	Sampling Rate
T	10 times per second
H	100 times per second (accuracy may reach to ±1%/FS)

Code	Precision
08	±1.0%F.S
05	±0.5%F.S
02	±0.25%F.S

Code	Power Supply
DC10	10~30 Vdc
DC5	(5±0.25) VDC

Code	Pressure connections
G	G1/4
N	NPT1/4
U	7/16-20UNF -22B
M	M20x1.5
G2	G1/2

Code	Electrical Connections
H	DIN43650C
GX	GX12-3
C	Wire jacket protection
CW	Waterproof cable conduit connections
P	Packard

Code	Cable length XXm=… m

Code	Packing
Bb	Bubble bag
Foam	Plastics foam

EST	3607	100bar	CO	T	05	DC10	G	H	1.5m	Bb

Note: *1: For products with a range less than 0.2 bar or greater than 20 MPa, please consult the manufacturer for tailor-made solution.*
2: The medium temperature mainly depends on the sealing material. The default NBR sealing ring allows for a medium temperature of -30 to 120°C. If you choose the FKM sealing ring, the medium temperature can be -20 to 125°C. If the medium temperature exceeds 85°C for long periods, please specify this explicitly.