

FEATURES

- Utilizes an oil-filled diffused silicon core with high precision and high stability.
- Built-in temperature compensation based on ASIC technology; diaphragm structure with an integrated heat sink, fully suitable for process medium temperatures up to 150°C.
- Using an integrated welded 316L stainless steel diaphragm, the wetted parts support $Ra \leq 0.8\mu m$ electro-polishing, suitable for CIP/SIP processes.
- The process connection is designed in accordance with standard specifications such as EHEDG and 3-A. It features a complete diaphragm and excellent resistance to clogging, scaling, and drainage performance.
- Featuring a welded enclosure and offering a maximum protection rating of IP67, it is capable of withstanding external spray cleaning and high-humidity environments.



DESCRIPTION

LFT2021 hygienic pressure transmitter uses high-performance piezoresistive pressure sensors as its measuring element. Through an internal dedicated digital integrated chip, it converts process pressure into an electrical signal output that can be read by PLCs, recorders, controllers, and computer ports. The transmitter features an integrated design with stainless steel electro-polishing, and the 316L diaphragm isolates the measured medium. It is highly suitable for high-temperature and chemical cleaning processes. It uses standard sanitary process connections, meets CIP/SIP requirements, and enables quick disassembly and replacement. This transmitter supports customer customization and can be widely used in the fields of food, beverage, pharmaceuticals, and bioengineering.

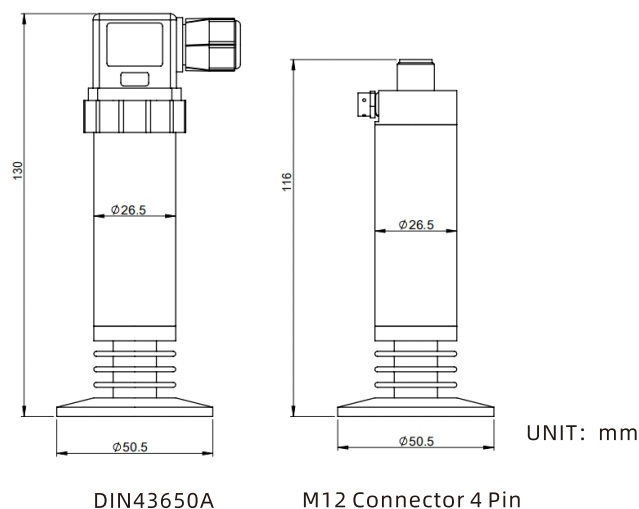
SPECIFICATION

Range	-100kPa...0~20kPa...3.5MPa				
Overload Pressure	1.5 times the rated pressure				
Accuracy①	$\pm 0.25\%F.S.$				
	$\pm 0.5\%F.S.$ (Range $\leq 100kPa$)				
Stability	$\leq 0.5\%F.S./\text{年}$				
Working Temp	$-20 \sim 85^{\circ}C$				
Medium Temp	$-20 \sim 150^{\circ}C$				
Storage Temp	$-40 \sim 100^{\circ}C$				
Temperature effect	Accuracy drift $\leq \pm 0.2\% F.S./10^{\circ}C$ @ $-20 \sim 85^{\circ}C$ (for ranges $\leq 100 kPa$, $\leq \pm 0.3\% F.S./10^{\circ}C$)				
Measured Medium	Media compatible with 316L stainless steel				
Wiring Method	2-wired	3-wired			4-wired
Output	4~20mA	0~10V	0~5V	0.5~4.5V	Rs485
Power Supply	8~36VDC	12~36VDC	8~36VDC	4.75~5.25VDC	10~30VDC
Maximum power②	$\leq 1W$				
Electrical Connection	M12 four-pin circular aviation plug、DIN43650A				
Ingress Protection	Ip67 (M12 four-pin circular aviation plug) ; IP65 (DIN43650A)				
Pressure Form	Gauge/Absolute				
Certification	ROHS、CE				

Note ①: The measurement was conducted at 25°C with the sensing pressure surface vertically downward, encompassing the combined accuracy of linearity, repeatability, and hysteresis.

Note ②: Maximum self-consumption power during normal operation at 25°C.

DIMENSION(mm)



ORDERING INFORMATION

Code and Description											Note
LFT2021											Model
	Range	-100kPa...0 ~ 20kPa...3.5MPa									Measurement range
	K	K = kPa					M	M = MPa			Measurement unit
	P	P = psi					B	B=Bar			
	A4	A4=4 ~ 20mA									Output type
	V0	V0=0 ~ 5V									
	V05	V05=0.5 ~ 4.5V									
	V10	V10=0 ~ 10V									
	RS	RS=RS-485									
	0.5	0.5 = 0.5%F.S									Accuracy
	0.25	0.25 = 0.25%F.S. (Range>100kpa)									
	D1	D1=DIN43650A (Hirschmann)									Electrical connection
	H	H = M12 Connector 4 Pin									
	K2	K2 = 50.5mm Tri-Clamp									Process connection
	KX	Customization									
	N	N=Without display									Display selection
	T3	3 heat sinks (maximum medium temperature 150°C)									Heat dissipation selection
	TX	Customization									
	0	0=Without wire									Cable length
	1.0	1.0=1m									
	2.0	2.0=2m									
	R8	Ra≤0.8μm (the wetted parts)									Special processing
	XC	Other requirements									
LFT2021	0-10	B	A4	0.5	H	K2	N	T3	1.0	R8	Example