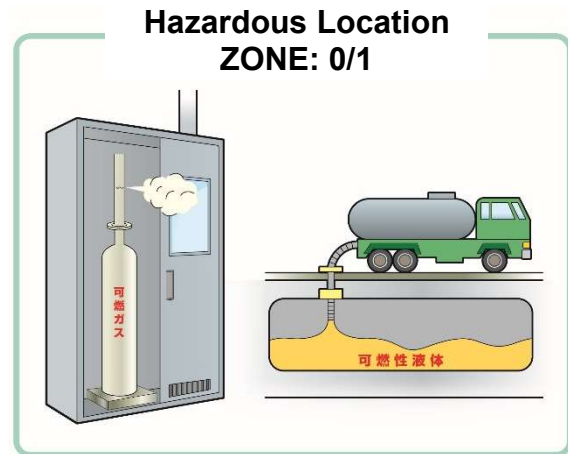


HYP-Bseries

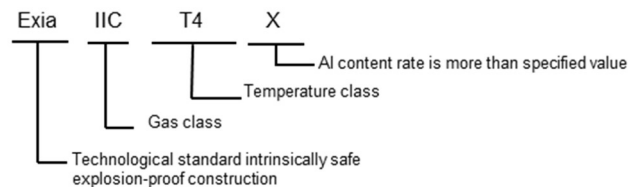
Intrinsically Safe Explosion-Proof Construction Pressure Transmitter



◀ **What is Intrinsically Safe Explosion-Proof?**

An intrinsically safe circuits and its wiring are incapable of causing ignition in the flammable gases.

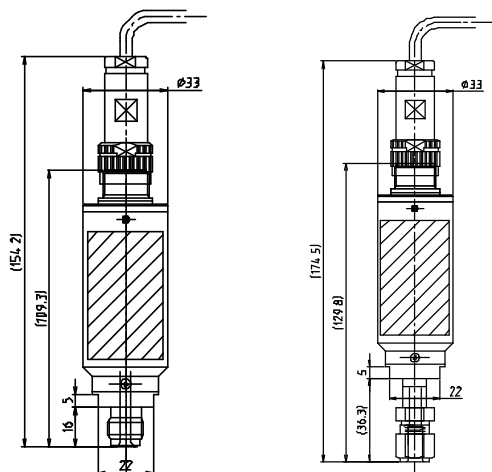
◀ *Intrinsically Safe Explosion-Proof Construction type*



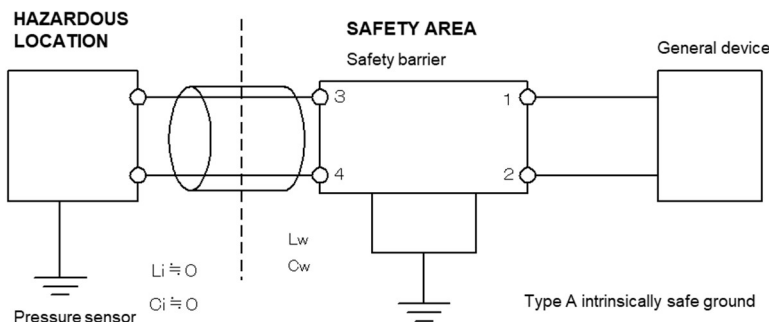
Type approval number	Technology Institution of Industrial Safety Intrinsically safe explosion-proof construction approved product Type approval number: No.TC19231 Pressure range: 1MPa, 5MPa, 10MPa, 20MPa
Safety maintenance rating	Max.allowable voltage of intrinsically safe circuit : 28V Max.allowable current of intrinsically safe circuit: 119mA Max.allowable power of intrinsically safe circuit: 0.835W Internal capacitance of intrinsically safe circuit: 40nF Internal inductance of intrinsically safe circuit: 502nH Ambient temperature: 60 °C
External transmission cable	Max.allowable inductance: 2.5mH Max.allowable capacitance: 0.015 μ F (Differs depending on the barrier used)
Container protection class	IP65 compliant
Withstand voltage	500V AC, 1 min.
Type Approval Numbers	KOSHA (Korea Occupational Safety and Health Agency): 11 – AV4BO-0100 NEPSI (National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation): GYJ18.1328X

- Conforming to the IEC intrinsically safe explosion-proof construction standard, they can be used in ZONE 0 places where are gas always exists.
- Approvals: TIIS(Japan), KOSHA(Korea), NEPSI(China)
- Hastelloy diaphragm applied and high corrosion resistance

Reference Drawing



System Layout



Specifications

Fluid	Various kinds of process gases
Pressure Range	1、 5、 10、 20MPa
Proof Pressure	2 × F.S. ; 1.5 × F.S (> 20MPa)
Output Signal	4-20mA (2wires)
Power Supply	DC24V ±10%
Load resistance	250 Ω max
Accuracy	±0.5%FS (Linearity, Repeatability, Hysteresis)
Thermal Effect	±0.05%FS/°C (at 0)
Compensated Temperature (*)	0-60°C: 35-85%RH (nonfreezing, non-condensing)
Operating Temperature	-20-60°C: 35-85%RH (nonfreezing, non-condensing)
Materials exposed to gases	Diaphragm: Hastelloy C-22 Sensor Body: SUS316L
Construction Material	Al alloy
Seal Method	Ultra-Precision Electron Beam Welding
Leak Integrity	<5 × 10 ⁻¹² Pam ³ /sec
Shape	Single Ended
Fitting Size	1/4"、 3/8"、 1/2"、 UJR、 VCR、 etc
Cable/Connector	Water proof type connector
Insulation resistance	100 Ω or more (50VDC)
Surface Finish	Ra: <0.25 μ m
Applicable standard	* EN61326/1997、 A1/1998、 A2/2001、 A3/2003 (EMI ClassA/EMS Annex A, F) *Please connect with the indoor supply of electric power net that does not receive the influence of the excess voltage by the thunder
Recommended safety barrier	** MTL7787P+ (MTL instruments) **The safety barrier can be selected by the customer
Recommended transmission cable specification	Cable core: 2 wires Sheath diameter: 6-8mm Cross-section area: 0.5-0.75mm ² withstand voltage AC(V)1min: 500 (Conductor-Ground)

Ordering information

Model	Type	Fitting Shape	Fitting Type
HYP	S Single Ended	M Fixed Male	V VCR Compatible
		N Swivel Male	U UJR
		F Swivel Female	R R (PT)
			G G (PF)
			W Swagelok Compatible

Output	Connector	Fitting Size	Pressure Range	Explosive proof
420 4-20mA	T Tajimi	1 1/4"	1 1MPa	B Intrinsically safety
		2 3/8"	2 5MPa	
		3 1/2"	3 10MPa	
		4 20MPa	4 20MPa	



Head Office
 2-7-13 Tsukishima, Chuo-ku
 Tokyo 104-0052 Japan
 TEL:81-3-3534-5320 FAX:81-3-3534-5322
Osaka Office
 TEL:81-6-6776-9270 FAX:81-6-6776-9271
 URL: https://www.tem-tech.co.jp
 Contact : sales@tem-tech.co.jp

* Specifications are subject to change without notice.

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