Autonics		Specifications		
Display Pressure Transmitter		Series	PTF30	X. \square . Here's any key anong the \mathbb{N} , \mathbb{N} , \mathbb{N} . X. \mathbb{M} : Moves digits / \mathbb{M} , \mathbb{N} : Changes SV.
		Power supply	15-35VDC=	X3. Press the M key after checking/changing SV in each parameter. The value flashes twice and is saved. t moves to next parameter.
FIFJU JERIEJ		Display method	12-segment 4-digit LCD Display	X4. Defaults are different by the pressure range by each model. X4fter entering setting group, press the M key for 3 sec or there is no additional key operation
INSTRUCTION MANUAL			DC4-20mA 2-wire	in 30 sec, it returns to RUN mode.
Thar	nk you for choosing Autonics product	Accuracy ^{*1}	Low-limit: 3.6 mA (-2.5%), High-limit: 21.6 mA (+10%) +0.3% of E S	RUN mode
Please read the following safety considerations before use.		Temperature	At 20 °C + (0.075% × URL + 0.15% × Span)	
		characteristics Setting method	Setting by front push keys	
Safety Considerations		Sampling cycle	300 ms	
XPlease observe all safety considerations for safe and proper product operation to avoid		Dielectric resistance	1000 VAC for 1 min (between external terminal and case) 0.75 mm amplitude at frequency of 5 to 55 Hz (for 1 min) in each X, Y, Z	
$\times \Delta$ symbol represents caution due to special circumstances in which hazards may occur.			direction for 2 hours	
A Warning Failure to follow these instructions may result in serious injury or death.		Noise immunity	Square shaped noise by noise simulator (pulse width 1 µs) ±240 V	*4 $L R_{5}$ • Setting range: within the pressure range of input type
Caution Failure to follow these instructions may result in personal injury or product damage.		Memory protection	Approx. 10 years (non-volatile semiconductor memory type)	
A Warning		ment Ambient humi	0 to 85%RH	High-limit input value
1. Fail-safe device must be installed when using the unit with machinery that may		Material	Body: Aluminum (AIDc.8S), Cover O-Ring: Buna N, Diaphragm, connections: Stainless steel 316	· Setting range: within the pressure range of input type
cause serious injury or substantial economic loss. (e.g. nuclear power control,		Explosion class ^{*2}	Ex d IIC T6	Decimal point position
equipment, crime/disaster prevention devices, etc.)		Approval		×4dP Select the decimal point position of display scale value. XSetting range is different by the pressure range.
Failure to follow this instruction may result in personal injury, fire or economic loss. 2. Do not use the unit in the place where flammable/explosive/corrosive gas, high		Unit weight	1.2 kg	
humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.		※1: F.S.: Rated pressu※2: The explosion class	The explosion class specification is acquired and managed by KONICS.	
 Failure to follow this instruction may result in explosion or fire. The explosion-proof standard of this unit is Ex d IIC T6, protection structure of this 		XEnvironment resistance is rated at no freezing or condensation.		• Setting range: -1999 to 9999 * Displayed only when selecting input unit [UNI E] as
unit is IP67 and the range of max. surface temperature is below 85°C.		Functions		% [° ₀] or OFF [₀FF].
Failure to follow this instruction may result in fire or electric shock.		© Input unit [UNI E]		High-limit scale value
A Caution		(bar, mbar, Pa, kPa, MPa, gf/cm ² , kgf/cm ² , mmH ₂ O, psi, mmHg, %, OFF)		Setting range: -1999 to 9999 ★ Displayed only when selecting input unit [UNI E] as
1. Do not apply beyond the rated pressure.		© User input range	User input range [L - R6, H - R6] Super though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can set user input range within the pressure range Very though each unit has the range you can be added within the pressure range Very though each unit has the range you can be added within the pressure range Very though each unit has the range within the pressure range Very though each unit has the range within the pressure range Very though each unit has the range within the pressure range Very though each unit has the range within the pressure range Very the pressure range each unit has the range each unit has the range each unit has the pressure range each unit has the presse each	
Failure to follow this instruction may result in product damage.		when input range is limited for actual usage.		Z = C = C = C = C = C = C = C = C = C =
Failure to follow this instruction may result in fire or product damage.		Decimal point se This function is to ch	© Decimal point setting [d/P] This function is to share decimal point digit for input display value	
3. Keep metal chip, dust, and wire residue from flowing into the unit.		When input unit is set as % [° $_{o}$] or OFF [$_{o}FF$], only the display position of decimal point is		Slope correction
 Check the polarity of the contact before wiring the unit. 		moved. • Setting range: 0 / 0 0 / 0.00 / 0 000		SPRN → 1000 Corrects occurring error at 100% input. • Setting range: 0.900 to 1.100
Failure to follow this instruction may result in product damage by a fire. 5. This product is designed to detect the pressure of noncorrosive fluid. Do not use for		Setting range is di	fferent by the pressure range.	Low-limit output
corrosive fluid.		This function is to set (-1999 to 9999) for particular high/low limit value in order to display		scale value *4 1 n1/r
 Use a dry cloth to clean the unit, and do not use water or organic solvent. 		high/low limit value of measurement input. If measurement inputs are "a" and "b" and particular values are "A" and "B", it will display a=A, b=B as below graphs.		Within temperature range when input unit is standard pressure unit.
Failure to follow this instruction may result in fire.		Display A Display		Within display scale range when input unit is % or OFF.
Ordering Information TF30 - G 7 N N - F8 (-0.1 to 35MPa)		A B B B B B B B B B B B B B B B B B B B		High-limit output scale value
				Within temperature range when input unit is standard
1 2 3 4	<u>6</u> 0	VThis function is an		Within display scale range when input unit is % or OFF.
①ltem	Description PTF30 Pressure Transmitter	© Zero-point corre	anable only when input unit is $\%[\circ a$ for OFF [aFF].	digital filters
@Measurement	G Gauge pressure, sealed gauge pressure ^{×1}	It corrects the error o	f display value for 0% It corrects the error of display value for	• Setting range: 01 to 16
pressure	A Absolute pressure Absolute pressure	• Setting range: -999	to 999 • Setting range: 0.900 to 1.100	Digital input Select digital input function by front keys.
	1 0 to 35kPa 0 to 35kPa	Output 🛉	Output	$di \xrightarrow{K}$ Hold *Press the \mathbb{M}, \mathbb{R} keys for 3 sec at the same time and it executes the selected function.
	3 0 to 0.2MPa 0 to 0.2MPa			
	4 0 to 0.7MPa 0 to 0.7MPa			Display 1 selection
	5 0 to 2MPa 0 to 2MPa 6 0 to 3.5MPa 0 to 3.5MPa		Input	
	7 0 to 7MPa	0 00kgf/cm ²	10.00kgf/cm ² 0 00kgf/cm ² 10.00kgf/cm ²	
③Rated pressure range	8 0 to 21MPa 9 0 to 35MPa	© Output scale [L	DUE, HoUE]	
	sealed gauge pressure×1	Set the display value	for DC4 mA[L_UUL] and the display value for DC20 mA[H_UUL].	
	A35 to 0kPa C0.1 to 0MPa	Output▲ 21 6mA	Output A	* Displayed only for compound pressure model.
	F -0.1 to 0 2MPa	20mA	20mA	
	H -0.1 to 0.7MPa M -0.1 to 2MPa	4mA		
	O -0.1 to 3 5MPa	3 6mA	3.6mA	
@HART	Z Others	LoUE	HoUL LoUL HoUL	
communication output	N None	Digital filter [MAI Digital filter is able to	(F] display stably and output the poise from input line and irregular signals.	
Mounting bracket	B With bracket	This unit applies moving average digital filter and display cycle is same.		
©Pressure port	F8 G3/8 (PF)	* Setting range: 01 to 16 %When setting as 01, digital filter function does not run.		
 W1: The pressure is seale 	User pressure range** ed gauge pressure. The unit is sealed structure.	© Digital input [d/ −K]		
It is based on atmospheric pressure 101.3kPa (1.013bar). ※2: Write he desired pressure range and it is the default of user pressure range		By front keys operation (D.IN3: 🗹 + 🗟 3sec), one of two functions executes as the below table.		F.G.
(select "Z" at ③Rate	d pressure range)	Function Operation		
Unit Descrip	otions	Hald Display Hold Temporarily indicated value is stopped in order to confirm indicated value in unstable input.		
· · · ·	1. Display part Displays detected pressure value,	L M Zero-point	It is same function as $[E_{R_0}]$.	XYou can check DC4-20 mA output by connecting Ampere an ampere meter. (impedance: max 300)
m//h pel MPa mbar kg/cm* 1	2. Unit display part Displays the currently set input unit.	adjustment When executing this function, you can check and change correction value at ERo.		
	3. Output scale bar graph Displays output DC4-20 mA as scale bar graph by 5% unit.	© Multi-display selection [d5P /, d5P2]		Factory Default
	4. M key Used to enter parameter mode, move parameters and save SV.	Select one for display 1 and display 2 among PV, oUE, LPEK, HPEK. Set d5P 1 and d5P2 differently and it displays two different values in turn for 2 sec.		Parameter Default Parameter Default Parameter Default UNIE BAR LSC DDD LoUE DDD dSP I PV
	 6 5. 𝔅, 𝔅, 𝔅 key Used to enter parameter set mode, move digits. 6. D.IN3 Press the 𝔅 and 𝔅 keys at the same time for 3 sec. 	When selecting LPEK (HPEK), the left (or the right) of output scale bar graph flashes for 0.5 sec.		L RG 0000 ^{×1} H SC 1000 Holt 0350 dSP2 PV
4 5 the set function (display HOLD, zero-point adjustment)		© High/Low peak monitoring [LPEK, HPEK]		n rb U350*** EKo UUU MHVF O4*** EUF oFF dP 0.350**1 SPRN IDOO dI K HoLd**1 LoEK oFF
	ato, nii parametet.	This function is to save high/low peak to check the invisible abnormal condition of system. Select this function display selection [d5P !, d5P2] parameter.		※1: Defaults are different by the pressure range by each model.
	128 (unit: mm)	When the high/low peak is out of the temperature range, it displays HHHH or LLLL. To initialize high/low peak, press the ⊠, ∕ keys at the same time for 3 sec at [HPEK]or		Cautions during Use
		[LPEK]. In this case	peak value is the present input value.	1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.
		For compound press	Image: Second state	2. 15-35VDC power supply should be insulated and limited voltage/current or Class 2, SELV
		function displaye the	input pressure supply the power to the product with	power suppry device.

