

AUTROL[®]

DUON System Co., Ltd. since 1989

Smart Transmitter Pressure, Temperature, Level



1st & Unique Manufacturer of Smart Transmitter in Korea since 1989 year

1st Registrant on HART & Fieldbus Foundation in Korea

1st Registrant of Patents approval for Smart Transmitter in Korea

1st approval vendor of Smart Transmitter for nuclear application in Korea

www.autrol.com

We measure your treasure!

The brand AUTROL™ series are manufactured & patented by DUON System Co., Ltd. in Korea since 1989 year and it is able to harmonize with integrated instrument systems through HART & Fieldbus Foundation protocol to measure Differential, Gauge, Absolute Pressure, Temperature & Level on various applications in the fields of the world.

Autrol Smart Transmitters series line-up.

	Autrol Model	Type	Feature
Pressure	APT3500 APT3100 APT3200	FT, DPT, LT DPT, PT, LT PT(GP, AP)	Best Performance, +/- 0.04%* +/- 0.075% (opt. +/- 0.04%) +/- 0.075% (opt. +/- 0.04%)
Pressure for Nuclear Grade	APT3700N	DPT, FT, LT, PT	Class 1E
Temperature	ATT2100 ATT2200 ATT2250	Field mount Rail mount Head mount	with LCD
Level	ALT6100 ALT6200 ALT6210 ALT6300 ALT6400 ALT6500 ALT6600	GWR(Guided Wave Radar) 6.3 GHz 26 GHz Ultrasonic Float Type Magnetostrictive Capacitance	Contact Non-Contact Radar Non-Contact Radar Non-Contact Radar Contact Contact Contact
Accessory	AI100 Aconf 312 kits STT30, 50	Indicator UMPC Software	Remote local display Hart Modem Programmable Configuration

Certificate*

Category	Feature
Quality & HSE & Manufacturing System	ISO9001, ISO 14001, OHSAS18001, ABS
Quality for Nuclear	KEPIC-EN for Class 1E
Ex d & Ex ia for International	CE, ATEX, IEC, FM, EAC(Gost), Inmetro
Marine & Offshore	BV, DNV, LR, ABS, KR
Ex d & Ex ia for Korea	KCs
Traceability	ISO 17025

Contact

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* The information in this document is subject to change without notice. Please Consults the manufacturer for any question.

Pressure series



APT3500

+/- 0.04% of CS
DPT, FT, LT, PT
DPT up to 140 bar
High precision performance
Long term stability
HART 7 & 5
Duo Cell™
SST316L, HAST, Monel, Tantal,
Gold plate available
High Static pressure type
Special Chemical Seal Available



APT3100

+/- 0.075% of CS
(Option +/- 0.04% available)
DPT, FT, LT, PT
DPT up to 68 bar
Popular Precision performance
Long term stability
HART 5
SST316L, HAST, Monel, Tantal
available
Special Chemical Seal available



APT3200

+/- 0.075 % of CS
(Option +/- 0.04% available)
PT, LT
PT up to 700 bar
Popular precision
Long term stability
HART 7 & 5
SST316L, HAST, Monel, Tantal
available
Special Chemical Seal available

Chemical Seal



**APT3500
High Static type**



**APT3500-LFD
ETFE coating**



**APT3200
Special type**



**APT3500-LFS
Tantalum Diaphragm**



**APT3200
Clamp type**

Various Application: High Temperature,
High Pressure, Sanitary, Oil Free
finish, Smooth surface, Special
diaphragm Seal (Gold)
Oil & Gas, PetroChemical, SWRO,
Desalination

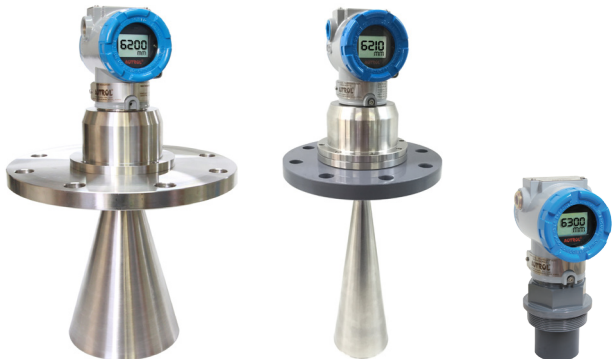
Level Series

Contact Level



APT6100 ALT6400 ALT6500 ALT6600

Non-Contact Level



ALT6200 ALT6210 ALT6300

ALT6100: GWR
ALT6400: Float Ball
ALT6500: Magnetostriuctive
ALT6600: Capacitance

ALT6300: Ultrasonic
ALT6200: 6.3 GHz
ALT6210: 26 GHz

Depending on applications, various level series are available.
Accuracy +/- 0.01% to 10 mm *
High accuracy, Long terms stability, high temperature application.



Temperature



LCD Indicator type
 Head mount type
 Din Rail mount type
 Sensor Inputs: RTD, T/C, mV, Ohm
 (Measuring range of Temperature: -200°C to 1,820°C)

$$\text{Digital Acc} + \left(\frac{\text{Digital Acc Span}}{100} \right) * \text{Trx Span}$$

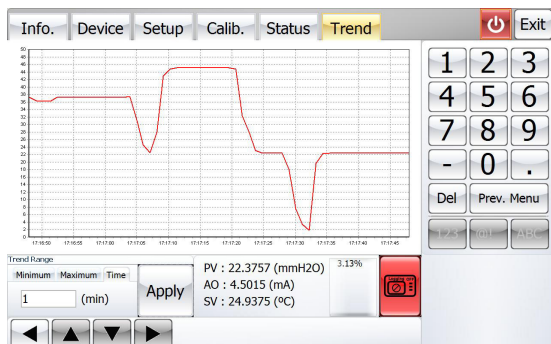
 (RTD: 0.003°C, T/C 0.046°C)
 Output : 4~20mA + Digital(HART)
 Ex d & IP66,/ 67
 Ambient Temperature: -40°C ~ 85°C

Local Indicator



Easy set-up, Friendly using.
 User Define Unit (Selectable locally & display on LCD by External Buttons function: change parameters with 2 buttons)
 High Resolution +/- 0.02%
 Input Signal: 4 to 20 mA
 Operating Range mode: 3.4 to 24 mA
 Voltage Drop: 1.5 Vdc (less than max. 2.0 Vdc)
 3 lines display: 5 digits & 1 sign(-) & 7 Segment Characters & Symbols.
 Humidity 0 to 100 % RH, Ex d & IP 66/67

Accessory



STT50 – Configuration Software (Touch Panel type)



HART modem

Operating on Windows Xp, 7, 8, 10 version

Nuclear series



APT 3700 N

Certified by
NEP: New Excellent Product
KEPIC-EN
Class 1E
High accuracy & stability

Qualified by
IEEE std. 323(1983/2003)
IEEE std. 344(1997/2004)
100 Gy(10,000 rad)
TID Co-60 2,221 ci
Mild Environmental
Radiation Harsh Environment for Semiconductor
2.7g ZPA seismic
+/- 0.25% Ref. Accuracy (higher acc. capability)
EMC/EMI: R.G. 1.280 Rev.1

Supplied to all Korea nuclear power plants, UAE, USA, Jordan, & Pakistan nuclear power plant or Research institutions

End-Users

