



## TYPE APPROVAL CERTIFICATE

**Certificate No.** : SEL25457-AE001 **Initial Approval** : 20th April, 2016

**Product** : Explosion-Proof Pressure and Temperature Transmitter

**Manufacturer** : Duon System Co., Ltd.  
298-29, Gongdan-ro, Gunpo-si, Gyeonggi-do, Korea

**Product Description** : Smart pressure transmitter : Type APT3100, APT3200  
Smart temperature transmitter : Type ATT2100

- Power supply : DC 24 V
- Output : DC 4 ~ 20 mA, Digital communication of base of HART protocol
- Explosion-Proof construction : Ex d IIC T6

" See Appendix 1 "

**Approval Condition** : 1. This approval is granted on the basis of the approved drawing and test reports.  
2. The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.  
3. Individual product certification is not required.

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 19th April, 2021

Issued at Busan, Korea on 20th April, 2016



**KOREAN REGISTER OF SHIPPING**

*General Manager of  
Marine & Ocean Equipment Team*

**Note** : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

## Appendix 1

# Product Description and/or Approval Condition

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Date of Issue :20th April, 2016

Product Description(cont.) :

- Range

Model	Code	Range	Type	
APT3100	D2	-1.5 ~ 1.5 kPa	Differential	
	D3	-7.5 ~ 7.5 kPa		
	D4	-37.3 ~ 37.3 kPa		
	D5	-186.5 ~ 196.5 kPa		
	D6	-690 ~ 690 kPa		
	D7	-2,068 ~ 2,068 kPa		
	D8	-6,895 ~ 6,895 kPa		
	H3	H3		-7.5 ~ 7.5 kPa
H4		-37.3 ~ 37.3 kPa		
H5		-100 ~ 186.5 kPa		
H6		-690 ~ 690 kPa		
H7		-2,068 ~ 2,068 kPa		
G2	G2	-1.5 ~ 1.5 kPa	Guage	
	G3	-7.5 ~ 7.5 kPa		
	G4	-37.3 ~ 37.3 kPa		
	G5	-100 ~ 186.5 kPa		
	G6	-100 ~ 690 kPa		
	G7	-100 ~ 2,068 kPa		
	G8	-100 ~ 6,895 kPa		
	G9	-100 ~ 20,680 kPa		
	G0	-100 ~ 41,317 kPa		
	APT3200	G3		-100 ~ 150 kPa
G4		-100 ~ 1,500 kPa		
G5		0 ~ 5,000 kPa		
G6		0 ~ 2,500 kPa		
G7		0 ~ 60,000 kPa		
A4		0 ~ 200 kPa	Absolute	
A5		0 ~ 1,000 kPa		
A6	0 ~ 2,000 kPa			
ATT2100		200 ~ 650 °C	RTD	
		-200 ~ 1,820 °C	TC	

\* RTD : Register Temperature Detector, TC : Thermo Couple

Documentation:

- Drawings : MD-ASS-3100-HM rev 1, MD-ASS-3100-SM rev 1, MD-ASS-3100-HPSM rev 1,  
MD-COM-3X00-IMW rev 0, 3200-ASS-100 rev 1, MD-COM-3X00-IMW rev 0,  
2100-ASS-100 rev 1, MD-COM-2100-IMW rev 0
- Test reports : 10-S430-6(2010.4.15), PLS11116(2011.2.14), 10-S430-3(2010.5.29)  
10-1571-262-1(2010.12.30), 10-1571-244-2(2010.11.30), 11-S420-001-1(2011.1.25)  
11-S420-001-2(2011.1.25), 11-S420-001-3(2011.1.25) issued by KTL
- Ex-proof certificate : KEMA07ATEX0103X, KEMA09ATEX0188X issued by KEMA Quality B.V

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