Non-Contacting Loop Powered Ultrasonic Transducer Series with HART communication protocol

The Pulsar dBi HART Transducer Series are a range of self-contained, intelligent non-contacting ultrasonic level measurement transducers which make use of HART communication protocols to make plant integration simple. Four range choices are available with either 3m, 6m, 10m or 15m range (10ft, 20ft, 33ft or 49ft).



Technical Specification:

TRANSI	DUCER SPECIFIC	C'						
Model:	Dimensions:	Weight:	Measuren	nent Range:	Frequency:	Beam Angle:	Accuracy:	Resolution:
dBi3	77D x 134Hmm	1.0kg (2.2lb)		(0.41-10ft)	125kHz	<10°	2mm (0.08in)	1mm (0.04ir
dBi6	86D x 121Hmm	1.2kg (2.7lb)	0.3 - 6m (0		75kHz	<10°	4mm (0.16in)	2mm (0.08ii
dBi10	86D x 121Hmm	1.3kg (2.9lb)			50kHz	<10°	3mm (0.12in) up to 6m (20ft) range 6mm (0.24in) over 6m (20ft) range	3mm (0.12ir
dBi15	86D x 135Hmm	1.4kg (3.1lb)	0.5 - 15m	(1.64-50ft)	41kHz	<8°	5mm (0.2in) up to 10m (33ft) range 10mm (0.39in) over 10m (33ft) range	5mm (0.2in
ALL TR	ANSDUCERS:							
PHYSIC	AL:							
Sensor I	oody material:		Valox 35	7 PBT				
Cable le	ngths:		Standard = 5m, 10m, 20m or 30m (16.4ft, 32.8ft, 65.6ft or 98.4ft). Optional: up to 150m (492ft) maximum (increments of 10m / 32.8ft only)					
Mountin	g connection:		BSP or 1	" NPT				
ENVIRO	NMENTAL:							
Enclosu	re protection:		IP68 / NE	MA 6P				
Max. and (electror	d min. temperatui nics):	re	-40°C to	+80°C (-40°F	= to +176°F)			
APPRO'	VALS:							
CE appr	oval:		Listed in	the Certifica	te of Conformi	ty within the <u>ma</u>	<u>nual</u>	
ATEX approval:			Standard: Zones 1 & 2 - Ex II 2 G Ex mb IIC T4 Gb, Ex II 2 D Ex mb IIIC T130°C Db, T _{amb} = -40°C to +80°C Optional: Zone 0 - Ex II 1 G Ex ia IIC T4 Ga, Ex II 1 D Ex ia IIIC T130°C Da, T _{amb} = -40°C to +80°C					
PERFOR	RMANCE:							
Input voltage range:			10-28Vdc					
Output:			4-20mA output, resolution 1μa					
Current consumption:			3.8mA to 22mA					
Boot time:			From power-up to stable reading: Cold boot = 9 seconds, Warm boot (within 12hrs from last start-up) = 4 seconds					
Commu	ncations protoco	l:	Hart 7					
TRANSI	DUCER OPTIONS	S:						
			dBi3	dBi6	dBi10 d	Bi15		
PVDF				✓	√			
Front Th	readed / PVDF		✓	✓	✓			
	gence Shield		✓	✓	✓	✓		
	DIN/ANSI			√	√	√		
Foam Fa					√	✓		
Sanitary	Flange		√	√	√			

Pulsar Process Measurement Ltd. operates a policy of constant development and improvement and reserves the right to amend technical details as necessary.

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Unit B, 11/F Long To Building 654-656 Castle Peak Road Lai Chi Kok, Kowloon, Hong Kong

Tel: +852 3746 9033 Fax: +852 852 2120 8765 Email: contact@alliedpower.com.hk

I.S. of all the above