


# Certified Products

H&b Sensors manufacture a wide range of Exd (explosion proof) and Exia (intrinsically safe) products for use in hazardous areas and harsh environments.


Exd certification is available for both temperature measurement and level detection assemblies conforming to both ATEX and IECEx standards. Using either our aluminium or stainless steel Type 50 series connection head, a variety of different assembly configurations are available.

Exia certified temperature assemblies conforming to ATEX are available using both our Type 50 series and Type 11 connection heads.


## Connection Heads and Junction Box See Pages 12 - 15 For Full Technical Specification.

Type 11		Type 50		Type 51		Type 53	
							
Material	Aluminium	Material	Aluminium & Stainless Steel	Material	Aluminium & Stainless Steel	Material	Aluminium & Stainless Steel
Certified	Exia*	Certified	Exd and Exia*	Certified	Exd and Exia*	Certified	Exd and Exia*

## Exia Head Mounted Temperature Transmitters See Pages 18 - 19 For Full Technical Specification.

	5331D	5333D	5334D	5335D	5350B
	2-wire programmable transmitter	2-wire programmable transmitter	2-wire programmable transmitter	2-wire transmitter with HART® protocol	Profibus®PA/ Foundation™ Fieldbus transmitter
Input	PRT / Thermocouple	PRT	Thermocouple	PRT / Thermocouple	PRT / Thermocouple
Output	4...20mA	4...20mA	4...20mA	4...20mA	4...20mA

## Exia Head Mounted Temperature Transmitters See Pages 18 - 19 For Full Technical Specification.

	SEM 110XP	SEM 110XTC	SEM 210X	SEM 310X	TTC 200X	TTR 200X
	2-wire programmable transmitter	2-wire programmable transmitter	2-wire programmable transmitter	2-wire transmitter with HART® protocol	2-wire programmable transmitter	2-wire programmable transmitter
Input	PRT	Thermocouple	PRT / Thermocouple	PRT / Thermocouple	Thermocouple	PRT
Output	4...20mA	4...20mA	4...20mA	4...20mA	4...20mA	4...20mA



## Exia Din Rail Mounted Temperature Transmitters See Pages 20 - 21 For Full Technical Specification.



	6331B	6333B	6334B	6335D	6350B
	2-wire programmable transmitter	2-wire programmable transmitter	2-wire programmable transmitter	2-wire transmitter with HART® protocol	Profibus®PA/ Foundation™ Fieldbus transmitter
<b>Input</b>	PRT / Thermocouple	PRT	Thermocouple	PRT / Thermocouple	PRT / Thermocouple
<b>Output</b>	4...20mA	4...20mA	4...20mA	4...20mA	4...20mA

## Exia Head Mounted Displays See Page 23 For Full Technical Specification.



	HBS 16000/X	HBS 16001/X	HBS 16002/X	HBS 16003/X	HBS 16004/X
	Battery Powered Programmable LCD display	Loop-Powered Programmable LED display	Battery Powered Programmable LCD display	Loop-Powered Programmable LCD display	Loop-Powered HART® Programmable LCD display
<b>Input</b>	PRT / Thermocouple	PRT	Thermocouple	PRT / Thermocouple	PRT / Thermocouple

## Panel Mounted Display See Page 22 For Full Technical Specification.



5531B
Loop-Powered LCD display

<b>Input</b>	3.6...23 mA
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## Exd 316 Stainless Steel Compression Fittings



Thread Size (3mm Ø, 4.5mm Ø and 6mm Ø Bores Available)	¼"			½"			¾"			1"			Metric	
	¼" BSP	¼" BSPT	¼" NPT	½" BSP	½" BSPT	½" NPT	¾" BSP	¾" BSPT	¾" NPT	1" BSP	1" BSPT	1" NPT	M16 x1.5	M20 x1.5

\* When part of an assembly.