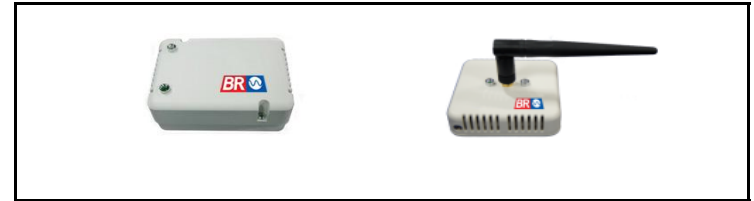


## Pressure Differential (PDi) (Pressure) $\pm 2$ KPa (10 to 60°C: $\pm 6.25\%$ Vfss) Smart Box

**Product Codes: PDPPrSB1020**

The Pressure Differential Smart Box is designed to measure pressure differential between -2 kPa to +2 kPa.



### Sensor Specifications

Measurement Type	Pressure Differential
Operating Temperature	10 to 60°C
Storage Temperature	-30 to 100°C
Measurement Range	$\pm 2$ kPa
Response Time, (Sensitivity)	1.0 ms
Repeatability	N/A
Accuracy	10 to 60°C: $\pm 6.25\%$ Vfss
Life Expectancy	N/A
Sensor Type	Pressure
Sensor Cable Length	N/A
Certified	No

### Smart Box Specifications

Operating Temperature	-40°C to +85°C
Storage Temperature	-40 to 105°C
Air Data Rate	250 kb per second
Channels	16 (IEE 802.15.4 channels 11-26)
Hardware Supported Encryption	AES128
Analogue Digital Resolution	Up to 12 bits
Sample time for 12 bit conversion	680 $\mu$ s

### Power Supply Option

Standard PSU mains
Water Resistant PSU mains
Battery 9V (Replaceable)
Battery (Rechargeable)
Solar & Battery (Rechargeable)

### Smart Box Housing IP Rating

Indoor	IP50
Outdoor Splash proof	IP51
Outdoor - water jet	IP65
Outdoor - Immersion	Contact Us
Outdoor Explosion Proof	Contact Us



British Research Unit 4,  
Vale Enterprise Centre, Hayes Rd.,  
Sully, Vale of Glamorgan, CF64 5SY UK  
Tel. 0044 (0) 1446 734012  
Fax. 0044 (0) 5601 258134  
Web: www.britishresearch.com

Antenna Options (Range)		Code
Internal	(60m)	i
Large	(700m)	L
Right-Angle	(300m)	R
Small Stub	(300m)	S