Druck
a Baker Hughes business

ADROIT6000 & ADROIT6200

Pressure sensing platform

The ADROIT6000 and ADROIT6200 are high performance, robust pressure measurement devices. Combining the best mechanical properties of micromachined silicon with the latest digital processing capability to offer levels of accuracy, previously unavailable in a device of this type. They offer a full suite of pressure measurement including gauge, absolute and differential references and pressure ranges from 68 mbar to 700 bar.

Digital and Analogue

By using digital signal processing, the highest levels of performance over temperature are achieved. However, the final stage of processing converts the signal back into a conventional analogue output for easy interfacing to existing infrastructure. Fast ASIC technology ensures response times around 1 ms and fast switch on for pulse power operation. The digital processing also enables the replacement of mechanical adjustment to potentiometers with automatic calibration adjustment using an App.

Small and Robust

The highest-grade components are designed to withstand high levels of shock, vibration and temperature extremes. Components are welded into a small, convenient, 19 mm or 25 mm diameter to offer best in class performance in the harshest environments.

Druck Expertise

Druck have used 50 years of experience to design the ADROIT6000 and ADROIT6200. From the silicon processing, through the mechanical construction of the pressure sensing module and electronics design, to the selection of electrical connectors, each component's performance has been optimized to meet your requirements. Our team of experts can help you make the optimum product selection for your application.

Features

- Non-linearity, hysteresis and repeatability to 0.02 % span BSL
- Pressure ranges from 68 mbar to 700 bar (1 to 10000 psi)
- Gauge, Sealed Gauge, Absolute, Barometric and Differential references
- 4-20 mA , 20-4 mA and configurable voltage outputs
- Total accuracy up to 0.1 % span
- Frequency response to 1 kHz
- Stainless steel 316 L construction
- Operating temperature range up to -40 °C to +125 °C and survival from -55 °C to +150 °C
- Hazardous area certifications

Measurement

Operating Pressure Ranges

	ADROIT6200	ADROIT6000
Gauge ranges (g)	Zero and non-zero based ranges Upper range Limit (URL): 68 mbar to 70 bar Lower range limit (LRL): -1 to 35 bar Span limit: for gauge depression ranges, Min URL is 0, span needs to be greater than 68 mbar.	Zero and non-zero based ranges Upper range Limit (URL): 68 mbar to 70 bar Lower range limit (LRL): -1 to 35 bar Span limit: for gauge depression ranges, Min URL is 0, span needs to be greater than 68 mbar.
Sealed gauge ranges (sg)	Zero and non-zero based ranges Upper range Limit (URL): 10 bar to 350 bar Lower range limit (LRL): -1 to 200 bar Span limit: Span must be greater than 50 % of the URL	Zero and non-zero based ranges Upper range Limit (URL): 10 bar to 700 bar Lower range limit (LRL): -1 to 200 bar Span limit: Span must be greater than 50 % of the URL
Absolute ranges (a)	Zero and non-zero based ranges Upper range Limit (URL): 344 mbar to 350 bar Lower range limit (LRL): 0 to 175 bar Span limit: Span must be greater than 50 % of the URL. See Note 8 in ordering information.	Zero and non-zero based ranges Upper range Limit (URL): 100 mbar to 700 bar Lower range limit (LRL): 0 to 350 bar Span limit: Span must be greater than 50 % of the URL.
Barometric (b)	Upper range Limit (URL): 1.3 bar Lower range limit (LRL): 350 mbar Span limit: Span must be greater than 350 mbar	Upper range Limit (URL): 1.3 bar Lower range limit (LRL): 350 mbar Span limit: Span must be greater than 350 mbar
Wet-dry differential (WD)	Zero and non-zero based ranges Upper range Limit (URL): 68 mbar to 35 bar Lower range limit (LRL): -1 to 17.5 bar Span limit: Span must be greater than 50 % of the URL. See Note 8 in ordering information.	Zero and non-zero based ranges Upper range Limit (URL): 68 mbar to 35 bar Lower range limit (LRL): -1 to 17.5 bar Span limit: Span must be greater than 50 % of the URL.
Wet-wet differential (WW)	Zero and non-zero based ranges Upper range Limit (URL): 344 mbar to 35 bar Lower range limit (LRL): -1 bar to 17.5 bar Span limit: Span must be greater than 50 % of the URL	Zero and non-zero based ranges Upper range Limit (URL): 344 mbar to 35 bar Lower range limit (LRL): -1 bar to 17.5 bar Span limit: Span must be greater than 50 % of the URL

Over-pressure

	ADROIT6200	ADROIT6000
Gauge, Absolute, Sealed Gauge	The following pressure can be applied without causing a shift in calibrated accuracy: • 6 x FS for ranges up to 700 mbar • 2 x FS for barometric ranges • 4 x FS for ranges up to 70 bar • 4 x FS for ranges up to 350 bar (700 bar max)	The following pressure can be applied without causing a shift in calibrated accuracy: • 1.2 bar for ranges < 300 mbar • 4 x FS for ranges 300 mbar to 70 bar (200 bar max) • 2 x FS for barometric ranges • 4 x FS for ranges 70 to 700 bar (1200 bar max)
Differential WW and WD	For differential versions the negative side must not exceed the positive side by more than: • 6 x FS for ranges up to 150 mbar • 4 x FS for ranges up to 700 mbar • 2 x FS for all other ranges up to a maximum of 15 bar Differential line pressure maximum 70 bar	For differential versions the negative side must not exceed the positive side by more than: • 6 x FS for ranges up to 150 mbar • 4 x FS for ranges up to 700 mbar • 2 x FS for all other ranges up to a maximum of 15 bar Differential line pressure maximum 70 bar

Containment Pressure

	ADROIT6200	ADROIT6000
Gauge, Absolute, Sealed Gauge, Differential (+ve port)	6x FS to 700 bar maximum	1.5 bar for ranges up to 250 mbar 6 x FS (200 bar max) for ranges from 250 mbar to 70 bar 1200 bar for ranges > 70 bar 600 bar max for connectors PX, RA and RF
Differential (-ve port)	Must not exceed positive port by more than 6 x FS (15 bar maximum).	Must not exceed positive port by more than 6 x FS (15 bar maximum).
Hyperbaric pressure	N/A	20 bar maximum, depth version only

Electrical Parameters

	ADROIT6200	ADROIT6000
Outputs	• 4-20 mA • 20-4 mA • 0-5 Volts 3-wire non true-zero* • Configurable: 3-wire voltage output versions within the range of 0 to 10 V with the following limitations: - Minimum span of 4 V - Maximum lower limit elevation equal to the span **Examples:** <u>Valid</u> 1 to 6 V 0.5 to 4.5 V <u>Invalid</u> 1 to 3 V (span too small 6 to 10 V (offset too large) Output voltage range can be specified to a resolution of 0.1 V The output will respond to at least 110 % of the applied Pressure *** Non true-zero, the output will saturate at < 50 mV.**	• 4-20 mA • 0-5 Volts 3-wire non true-zero* • Configurable: 3-wire voltage output versions within the range of 0 to 10 V with the following limitations: - Minimum span of 3.5 V - Maximum lower limit elevation equal to the span **Examples:** <u>Valid</u> 1 to 6 V 0.5 to 4.5 V <u>Invalid</u> 1 to 3 V (span too small 6 to 10 V (offset too large) Output voltage range can be specified to a resolution of 0.1 V The output will respond to at least 110 % of the applied Pressure *** Non true-zero, the output will saturate at < 50 mV.**

Supply Requirements

	ADROIT6200	ADROIT6000
4-20 mA output	12-28 Vdc	7-28 Vdc
20-4 mA output	12-28 Vdc	N/A
Voltage output	7-28 Vdc Supply voltage must be 2 V greater than the output voltage selected.	5-16 Vdc Supply voltage must be 1.5 V greater than the output voltage selected.

Other

	ADROIT6200	ADROIT6000
Insulation	Greater than 100 MΩ at 500 Vdc.	Greater than 100 MΩ at 500 Vdc
Power On Time	From power on to a stable reading within specification less than 30 ms.	From power on to a stable reading within specification less than 30 ms.
Current Consumption	4 to 20 mA output: < 22 mA 20 to 4 mA output < 22mA Voltage output: < 3mA	4 to 20 mA output: < 22 mA Voltage output: < 3mA

Performance Specification

	ADROIT6200	ADROIT6000
Total Precision (non-linearity, hysteresis, repeatability, thermal effects and zero/span setting)	Premium – 0.1 % Span Improved – 0.2 % Span Values increase pro-rata for pressure spans less than 1000 mbar and double for barometric ranges.	Premium – 0.1 % Span Improved – 0.2 % Span Values increase pro-rata for pressure spans less than 1000 mbar and double for barometric ranges.
NLH&R (non-linearity, hysteresis, repeatability) at 23 °C	Premium – 0.02 % Span BSL Improved - 0.04 % Span BSL (BSL – Best Straight Line) Values increase pro-rata for pressure spans less than 1000 mbar and double for barometric ranges.	Premium – 0.02 % Span BSL Improved - 0.04 % Span BSL (BSL – Best Straight Line) Values increase pro-rata for pressure spans less than 1000 mbar and double for barometric ranges.
Response Time	Less than 1 ms	Less than 1 ms
Resolution	0.01 % span	0.01 % span
Stability	Long-term stability 0.05 % Span/year typical (0.1 % Span/year max), increasing pro-rata for pressure ranges below 1 bar.	Long-term stability 0.05 % Span/year typical (0.1 % Span/year max), increasing pro-rata for pressure ranges below 1 bar.
Line pressure effects (differential versions only)	Zero Shift <±0.03 % Span/bar of line pressure Span shift <±0.03 % Span/bar of line pressure Effects increase pro-rata for differential ranges below 700 mbar	Zero Shift <±0.03 % Span/bar of line pressure Span shift <±0.03 % Span/bar of line pressure Effects increase pro-rata for differential ranges below 700 mbar
Orientation sensitivity	**Gauge, absolute, and wet-dry differentials** Units are calibrated mounted pressure connection down. Output will change by less than 1 mbar/g which can be zeroed out during calibration **Wet-wet differentials** Units are calibrated with the positive port down. Output will change by less than 5 mbar/g which can be zeroed out during calibration.	**Gauge, absolute, and wet-dry differentials** Units are calibrated mounted pressure connection down. Output will change by less than 1 mbar/g which can be zeroed out during calibration **Wet-wet differentials** Units are calibrated with the positive port down. Output will change by less than 5 mbar/g which can be zeroed out during calibration.

Physical Specifications

	ADROIT6200	ADROIT6000
Mass	60 g approx.	120 g approx.
Pressure media compatibility	Fluids compatible with stainless steel 316L and Hastelloy C276. *Not suitable for media that has an oxygen concentration >21 % or other strong oxidizing agents. This product contains materials or fluids that may degrade or combust in the presence of strong oxidizing agents.*	Fluids compatible with stainless steel 316L and Hastelloy C276. *Not suitable for media that has an oxygen concentration >21 % or other strong oxidizing agents. This product contains materials or fluids that may degrade or combust in the presence of strong oxidizing agents*
Enclosure materials	Stainless steel 316L body and depending on choice of connector: • Polyurethane cable (metal crimp) - Polyurethane • Raychem cable (metal crimp) - Raychem • MIL-C-26482 (6 pin Shell size 10) - PBT, Brass H62 (TB temp range). Glass, gold plated nickel (TD temp range) • M12x1 Male (4 pin Type A coded) - Nylon 6, Brass H62 (TB temp range) Glass, Alloy 52 (TD temp range) • Micro-DIN (9.4 mm pitch) – Nylon 66, Tin plated Brass, Copper Alloy Note: see ordering details for TB and TD temp ranges.	Stainless steel 316L body and depending on choice of connector: • Polyurethane cable (plastic gland) - Polyurethane • Raychem cable (metal crimp) – Raychem • Hytrel depth cable - Hytrel • MIL-C-26482 (6 pin Shell size 10) - PBT, Brass H62 (TB temp range). Glass, gold plated nickel (TD temp range) • M12x1 Male (4 pin Type A coded) - Nylon 6, Brass H62 (TB temp range) Glass, Alloy 52 (TD temp range) • DIN 43650 – Nylon 66, Tin plated Brass, Copper Alloy Note: see ordering details for TB and TC temp ranges.

<table>
<tr><th></th><th colspan="2">ADROIT6200</th><th colspan="2">ADROIT6000</th></tr>
<tr><td rowspan="10">Environmental Protection</td><td>Polyurethane cable (metal crimp)</td><td>IP65</td><td>No connector</td><td>N/A</td></tr>
<tr><td>Raychem cable (metal crimp)</td><td>IP65</td><td>Cable Gland</td><td>IP65</td></tr>
<tr><td>MIL-C-26482 (6 pin Shell size 10)</td><td>IP65/67**</td><td>Raychem Cable</td><td>IP65</td></tr>
<tr><td>M12x1 Male (4 pin Type A coded)</td><td>IP65/67**</td><td>Polyurethane Depth</td><td>IP68</td></tr>
<tr><td>Micro-DIN (9.4 mm pitch)</td><td>IP65</td><td>Hytrel Depth</td><td>IP68</td></tr>
<tr><td colspan="2" rowspan="6">** Note: IP65 for temperature range -20 °C to +80 °C and IP67 for temperature range -55 °C to +125 °C.</td><td>Bayonet MIL-C-26482</td><td>IP67</td></tr>
<tr><td>DIN 43650 Form A Demountable</td><td>IP65</td></tr>
<tr><td>1/2 NPT Conduit</td><td>IP65</td></tr>
<tr><td>Micro DIN (9.4 mm pitch)</td><td>IP65</td></tr>
<tr><td>M12x1 4pin</td><td>IP67</td></tr>
<tr><td>M20 x 1.5 Inline</td><td>IP65</td></tr>
<tr><td>Operating temperature</td><td colspan="2">Polyurethane cable (metal crimp)
-40 to 80 °C

Raychem cable (metal crimp)
-55 to 125 °C

MIL-C-26482 (6 pin Shell size 10) -55 °C to maximum compensated temperature*

M12x1 Male (4 pin Type A coded) -55 °C to maximum compensated temperature*

Micro-DIN (9.4 mm pitch) -40 to 80 °C

* Note: Units with a compensated temperature range up to 125 °C will withstand short periods operating at temperatures up to 150 °C. Exposure to temperatures above 125 °C will shorten operating life.</td><td colspan="2">-40 to 80 °C

All electrical connector options.</td></tr>
<tr><td>Vibration and shock</td><td colspan="2">Sinusoidal Vibration to DO-160G Curve W. 5 to 2000 Hz, 30 g peak.

Random vibration to DO-160G Cat. R (robust) Curves D1+E1. 10 to 2000 Hz, peak ASD 0.16 g2/Hz.

Random vibration to BS EN 61373:2010. 5 to 250 Hz, peak ASD 6.12 g2/Hz.

Shock, 1000 g half-sine for 1 ms.</td><td colspan="2">Sinusoidal Vibration to DO-160G Curve W. 5 to 2000 Hz, 30 g peak, will not affect calibrated accuracy.

Shock, 1000 g half-sine for 1 ms, will not affect calibrated accuracy by more than 0.2 % span.</td></tr>
</table>

	ADROIT6200	ADROIT6000	
Regulatory Compliance	• RoHS Directive 2011/65/EU • Pressure Equipment Directive 2014/68/EU Sound Engineering Practice • EMC Directive 2014/30/EU • BS EN 61326-1: 2013: Electrical Equipment for Measurement, Control and Laboratory Use • BS EN 61326-2-3: 2013: Particular Requirements for Pressure Transducers • BS EN 50121-3-2: 2016+A1: 2019: Railway applications - Electromagnetic compatibility - Rolling stock - Apparatus. 4-20 mA version only.	• RoHS Directive 2011/65/EU • Pressure Equipment Directive 2014/68/EU Sound Engineering Practice • EMC Directive 2014/30/EU • BS EN 61326-1: 2013: Electrical Equipment for Measurement, Control and Laboratory Use • BS EN 61326-2-3: 2013: Particular Requirements for Pressure Transducers	
		Canada	
		Canadian Electrical Code C22.1 Section 18*	CSA-C22.2 NO. 157: R2016 CAN/CSA-C22.2 NO. 60079-0: 2015 CAN/CSA-C22.2 NO. 60079-11: 2014 CAN/CSA-C22.2 NO. 61010-1: 2012 CSA-C22.2 NO. 60529: 2010 CSA-C22.2 NO. 94.1: 2015 CSA-C22.2 NO. 94.2: 2015 ANSI/ISA-12.27.01: 2003
		Canadian Registration Number (CRN)	0F18611.513467890YTN for full range pressures <= 350 bar (5075 psi). 0F13828.2 for full range pressures <= 70 bar (1015 psi).
		United States	
		National Electrical Code NFPA 70. Articles 500 & 505*	FM 3600: 2018 FM 3610: 2018 FM 3810: 2005 ANSI/ISA 60079-0: 2013 ANSI/ISA 60079-11: 2014 ANSI/IEC 60529: 2004 ANSI/ISA-12.27.01: 2003

	ADROIT6200	ADROIT6000
Hazardous Area Certification	N/A	**ATEX, IECEx** Ex ia IIC T4 Ga (-40 °C <= Ta <= +80 °C) Ex ia I Ma (-40 °C <= Ta <= +80 °C) **FM, FMc (Divisions)** IS Class I, Division 1, Groups ABCD T4 (-40 °C <= Ta <= +80 °C) **FM, FMc (Zones)** Class I, Zone 0, AEx/Ex ia IIC T4 (-40 °C <= Ta <= +80 °C)

Connections ADROIT6200

Electrical Connection	Option Code	Connections	4-20 mA	Voltage Output
Polyurethane Cable	1	Red	+ve Supply	+ve Supply
		Yellow	-	+ve Output
		Blue	-	-
		White	-ve Supply	0V Common
		Orange	-	-
		Black	-	-
		Cable Screen	Case	Case
Raychem Cable	2	Red	+ve Supply	+ve Supply
		White	-	+ve Output
		Green	-	-
		Blue	-ve Supply	0V Common
		Black	-	-
		Cable Screen	Case	Case
MIL-C-26482	6	A	+ve Supply	+ve Supply
		B	-ve Supply	+ve Output
		C	-	-
		D	-ve Supply	0V Common
		E	-	-
		F	-	-
Micro-DIN (9.4 mm pitch)	D	1	+ve Supply	+ve Supply
		2	-ve Supply	0V Common
		3	-	+ve Output
		E	Case	Case
MIL-C-26482 Alt Wiring	E	A	-	+ve Supply
		B	-	0V Common
		C	-	+ve Output
		D	-	0V Common
		E	-	-
		F	-	-
M12x1 Male 4-pin	G	1	+ve Supply	+ve Supply
		2	-	+ve Output
		3	-ve Supply	0V Common
		4	-	-
M12x1 Male 4-pin Alt Wiring	W	1	+ve Supply	+ve Supply
		2	-ve Supply	0V Common
		3	-	-
		4	-	+ve Output

Connections ADROIT6000

Electrical Connection	Option Code	Connections	4-20 mA	Voltage Output
Molex Plug/Flying Leads No Backend Assembly	0	1 / Red	+ve Supply	+ve Supply
		2 / Yellow	-	+ve Output
		3 / Green	-	-
		4 / Blue	-ve Supply	0V Common
		5 / Orange	-	-
		6 / Black	-	-
MIL-C-26482 Bayonet	6	A	+ve Supply	+ve Supply
		B	-ve Supply	+ve Output
		C	-	-
		D	-	0V Common
		E	-	-
		F	-	-
MIL-C-26482 Bayonet US-Style	E	A	+ve Supply	+ve Supply
		B	-	0V Common
		C	-	+ve Output
		D	-ve Supply	-
		E	-	-
		F	-	-
DIN - All Forms	7, D	1	+ve Supply	+ve Supply
		2	-ve Supply	0V Common
		3	-	+ve Output
			-	-
Cable	1, 3, 4, C	Red	+ve Supply	+ve Supply
		Yellow	-	+ve Output
		Blue	-	-
		White	-ve Supply	0V Common
		Orange	-	-
		Black	-	-
		Screen	-	-
Raychem Cable	2	Red	+ve Supply	+ve Supply
		White	-	+ve Output
		Green	-	-
		Blue	-ve Supply	0V Common
		Black	-	-
		Screen	-	-
M12x1 4-pin	G	1	+ve Supply	+ve Supply
		2	-	+ve Output
		3	-ve Supply	0V Common
		4	-	-
M20 x 1.5 Demountable	R	+ve	+ve Supply	-
		-ve	-ve Supply	-

Availability:

Approval Code	Electrical Connector Code											
	0	1	2	3	4	6	7	C	D	E	G	R
H1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
H2	Y	N	Y	Y	Y	Y	N	Y	N	Y	Y	N
H6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
HA	Y	N	Y	Y	Y	Y	N	Y	N	Y	Y	N
HS	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

ADROIT6200 Ordering Information

1. Select model number

Product Series

ADROIT6 ADROIT6200

Diameter and Material

2 19 mm stainless steel

Electrical Connector

1 Polyurethane Cable (metal crimp)
2 Raychem Cable (metal crimp)
6 MIL-C-26482 Bayonet **Note 1**
D Micro DIN (9.4 mm Pitch) **Note 2**
E MIL-C-26482 Bayonet alternative wiring **Note 1**
G M12 x 1 4-Pin **Note 1**
W M12 x 1 4-Pin alternative wiring **Note 1**

Electronics Option

2 4 to 20 mA
4 0 to 5 Volts 3-wire
5 Configurable Voltage 3-wire
R 20 to 4 mA

Compensated Temperature Range

TB -20 to +80 °C
TD -40 to +125 °C **Note 3**

Accuracy

A2 Improved
A3 Premium **Note 4**

Calibration

CD Total Precision and Zero and Span Data

Hazardous Area Approval

H0 None

Pressure Connector

PA G1/4 Female
PB G1/4 Male Flat
PC G1/4 Male 60° Int Cone
PE 1/4 NPT Female
PF 1/4 NPT Male
PG 1/8 NPT Male
PJ M14 x 1.5 60° Int Cone
PK M12 x 1 Int Cone
PS 1/4 Swagelok Bulkhead **Note 7**
PT G1/4 Male Flat Long
P14 M8 X 1 Male **Note 7**
P18 M10 X 1 Male
P22 7/16-20 UNF Male 74° Ext Cone
P33 7/16-20 UNF Female
P60 M12 x 1.5 Int. Cone **Note 7**
P61 G1/4 Female with Wire Lock **Note 5 Note 7**
RA 1/4 VCR Female **Note 7**
RC G1/4 Male Flat Cross Bore **Note 5**
RF 1/4 VCR Male **Note 7**
RQ NW16 Flange **Note 6 Note 7**
RZ 1/4-28 UNF LH THD 58° Cone **Note 5 Note 7**

ADROIT6 2 6 2 - TB - A2 - CD - H0 - PA (Example Configuration)

Note 1: Mating connector not supplied. (see Accessories, section 3).

Note 2: Mating connector supplied. (see Accessories, section 3).

Note 3: TD compensated range is only available for connector options 2, 6, G or W.

Note 4: Premium Accuracy is not available if TD compensated temperature range is selected.

Note 5: This connection is only available on pressure ranges between ≥ 10 bar and ≤ 350 bar.

Note 6: This connection is only available on pressure ranges up to < 10 bar.

Note 7: This connection is not available with differential pressure ranges.

ADROIT6000 Ordering Information

1. Select model number

Product Series

ADROIT6 ADROIT6000

Diameter and Material

0	25 mm stainless steel	

Electrical Connector

0	None	
1	Cable Gland Vented Cable	
2	Raychem Cable	
3	Polyurethane Depth Cable	
4	Hytrel Depth Cable	
6	MIL-C-26482 Bayonet	**Note 1**
7	DIN 43650 Demountable	**Note 2**
C	1/2 NPT Conduit Vented Cable	
D	Micro DIN (9.4mm Pitch)	**Note 2**
E	MIL-C-26482 Alternative wiring	**Note 1**
G	M12 x 1 4-Pin	**Note 1**
R	M20 x 1.5 Female Demountable	

Electronics Option

2	4 to 20 mA
4	0 to 5 Volts 3-wire
5	Configurable Voltage 3-wire

Compensated Temperature Range

TB	-20 to +80 °C
TC	-40 to +80 °C

Accuracy

A2	Improved
A3	Premium

Calibration

CD	Total Precision and Zero and Span Data	

Hazardous Area Approval **Note 3**

H1	IECEx/ATEX IS Group IIC
H2	IECEx/ATEX IS Group I
H6	C&US IS Groups IIC/ABCD
HA	IECEx/ATEX IS (H1+H2)
HS	IECEx/ATEX/C&US IS (H1+H6)

Pressure Connector

PA	G1/4 Female	**Note 4**
PB	G1/4 Male Flat	
PC	G1/4 Male 60° Int Cone	
PE	1/4 NPT Female	**Note 4**
PF	1/4 NPT Male	
PG	1/8 NPT Male	
PH	M20 x 1.5 Male (3mm Bore)	
PJ	M14 x 1.5 60 ° Int Cone	
PK	M12 x 1 Int Cone	
PL	7/16-20 UNJF Male 74° Ext	
PN	G1/NPT Male	**Note 4**
PQ	G1/4 Quick Connect	
PR	1/2 NPT Male	**Note 4**
PS	1/4 Swagelok Bulkhead	
PT	G1/4 Male Flat Long	
PU	7/16-20 UNF Long 37° Flare Tip	**Note 4**
P58	7/16-20 UNF Autoclave	**Note 4/6**
PV	7/16-20 UNJF Female	**Note 4**
PW	Depth Cone (G1/4 Female)	
PX	7/16-20 UNF Male Short Flat	**Note 4/5**
PY	3/8-24 UNJF	
PZ	M10 x 1.0 80° Int Cone	
RA	1/4 VCR Female	**Note 4/5**
RB	G1/4 Male Flat-Snubber	
RC	G1/4 Male Flat Cross Bore	
RD	M12 x 1 74° Ext Wirelock	**Note 4/7**
RE	Quick Release Male	
RF	1/4 VCR Male	**Note 4/5**
RJ	M20 x 1.5 Male (8mm Bore)	
RQ	NW16 Flange	
RT	1/8-27 NPT Female	
RU	R3/8 Male	
RV	R1/4 Male	
RW	G1/4 Male with Nipple	

ADROIT6	**0**	**7**	**2**	**-**	**TB**	**-**	**A2**	**-**	**CD**	**-**	**H1**	**-**	**PA**	**(Example Configuration)**

Note 1: Mating connector not supplied. (see Accessories, section 3).
Note 2: Mating connector supplied. (see Accessories, section 3).
Note 3: see table on page 10 for electrical connector options availability with hazardous area certifications.
Note 4: Select one of these pressure connectors for pressure ranges over 70 bar
Note 5: RA, RF and PX connectors limited to < 500 bar
Note 6: High pressure P58 connector is made available for pressure ranges 500 to 700 bar only
Note 7: High pressure RD connector is made available for pressure ranges > 70 bar to < 350 bar only.

2. State pressure range and units: e.g. 0 to 10 bar, -5 to +5 psi Note 8

Unit options are:

Symbol	Description
bar	bar
mbar	millibar
psi	pounds/sq. inch
Pa	Pascal
hPa	hectoPascal
kPa	kiloPascal
MPa	MegaPascal
mmH_2O	mm water
cmH_2O	cm water

Symbol	Description
mH_2O	metres water
inH_2O	inches water
ftH_2O	feet water
mmHg	mm mercury
inHg	inches mercury
kgf/cm^2	kg force/sq. cm
atm	atmosphere
Torr	torr

Note 8: For ranges greater than 10 bar the zero offset needs to be less than 50 % of the span.

3. State pressure reference: e.g. gauge

Reference options are:

- gauge
- absolute
- barometric
- sealed gauge
- wet-dry differential
- wet-wet differential

4. Electrical Connector options 1, 2, 3, 4 and C: State cable length and units: Integer values only in ft or m.

- Minimum cable length: 1 m (3 ft)
- Maximum cable length: 3 m (10 ft)

5. Electronics option 5: State output at minimum and maximum pressure: e.g. output 0.5 to 4.5 V

Examples:

ADROIT62G2-TB-A3-CD-H0-PB 0 to 6 bar gauge

ADROIT6225-TD-A2-CD-H0-PA 0 to 100 bar Sealed Gauge, 2 m, 1 to 6 V

ADROIT6064-TB-A2-CD-H1-PE 0 to 700 bar Absolute

Request a quote here: http://bit.ly/Adroit6000contactus

Accessories (to be ordered as separate line items)

1. ADROIT Interface box part number: ADROIT-Interface

The interface is used with a Windows-based PC or an Android device (laptop, tablet or phone). It enables the user to make small adjustment to the zero and span settings of the sensor for calibration purposes. It is supplied with a USB lead to USB-C or USB-A.

2. Test leads

Set of 2 off 4 mm leads and crocodile clips for connection to the ADROIT sensor are available.
Part Number: 209-359. 2 sets are required for calibration.

3. Mating connectors

- For MIL-C-26482 Bayonet — Part Number 163-009
- For M12 x 1 4-Pin — Part Number 149M7393-1
- For Micro DIN (9.4 mm Pitch) — Part Number 192-257-01 (one supplied with each sensor)

4. Cable Assemblies

A made up electrical connector with a length of cable terminated in solder tinned wires.

(1) Select Part Number

Main Product

UNIKCABLE Cable Assembly

Electrical Connector

6	MIL-C-26482 Bayonet
D	Micro DIN (9.4 mm Pitch)
7	DIN 43650
G	M12 x 1 4-Pin

Cable

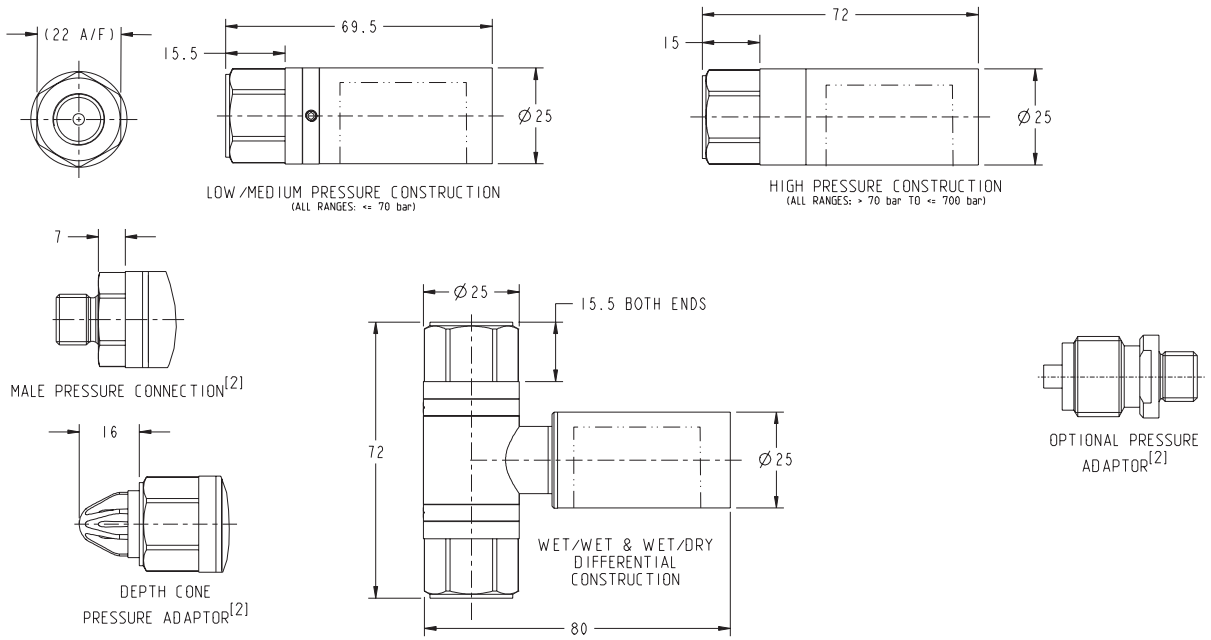
1	Polyurethane Cable
2	Raychem Cable

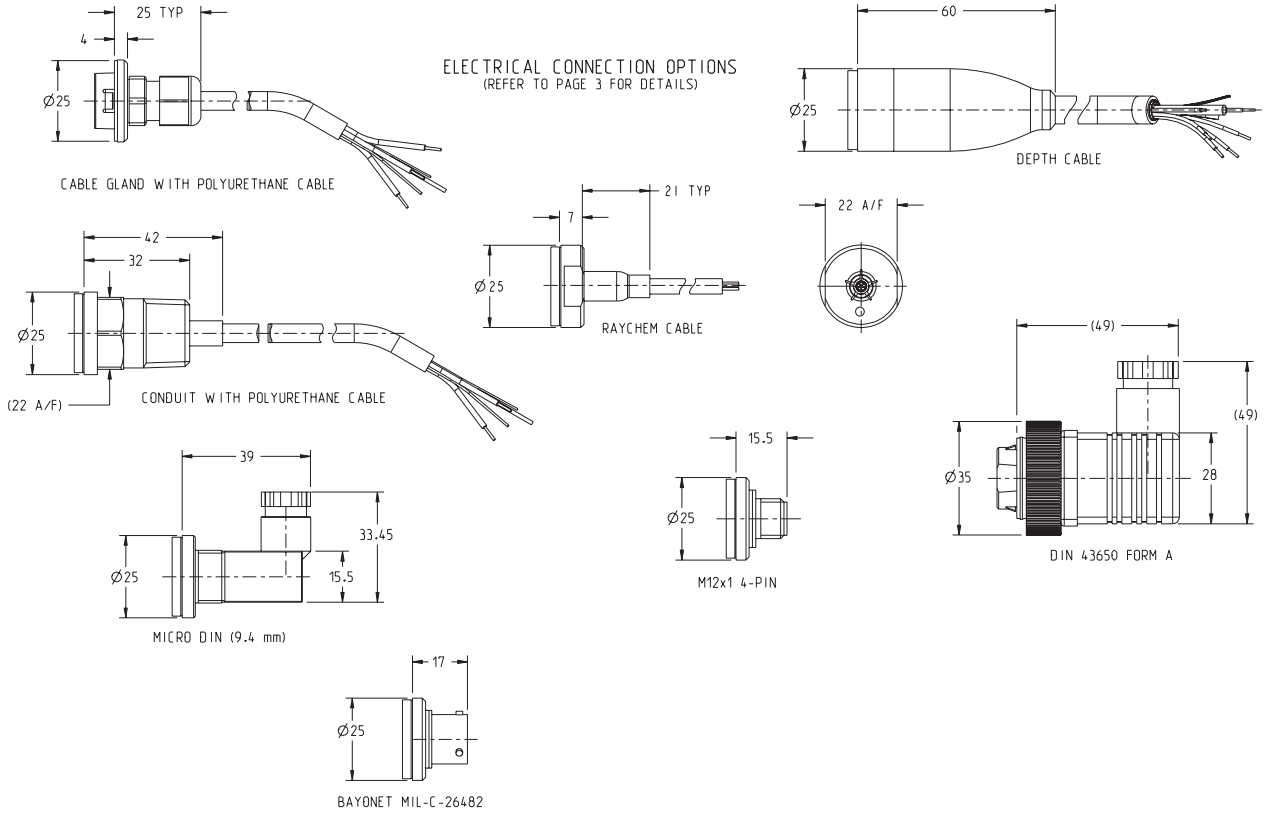
UNIKCABLE - 6 - 2 (Example Part Number)

(2) State Cable length and units (Integer value only)

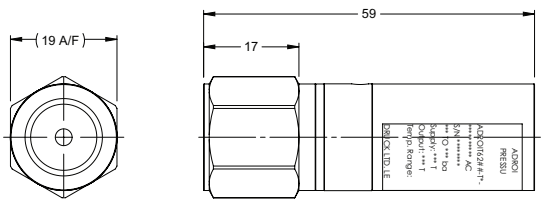
Minimum length 1 m (3 ft)
Maximum length 200 m (600 ft)
Example: UNIKCABLE-6-2, 5 m

ADROIT6000 Drawings

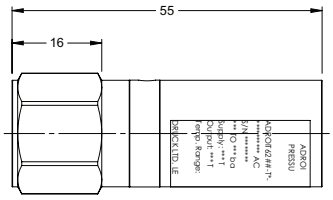




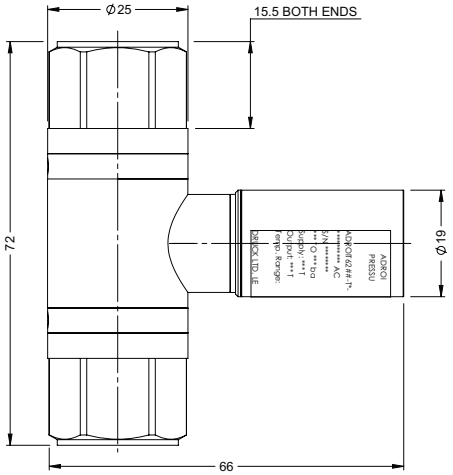
ADROIT6200 Drawings



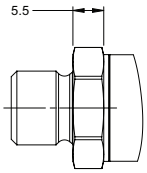
LOW PRESSURE CONSTRUCTION
(PRESSURE RANGES: <10 bar)



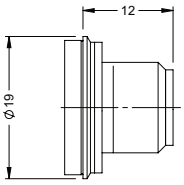
MEDIUM PRESSURE CONSTRUCTION
(PRESSURE RANGES: ≥10 bar to ≤350 bar)



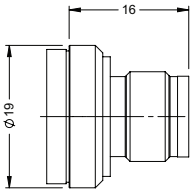
WET/WET & WET/DRY
DIFFERENTIAL
CONSTRUCTION



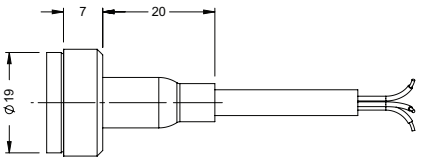
MALE PRESSURE CONNECTION



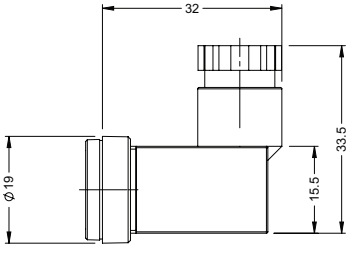
HIGH TEMP (TD) M12x1 4-PIN



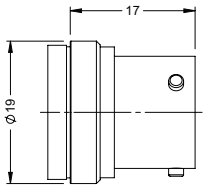
STANDARD TEMP (TB) M12x1 4-PIN



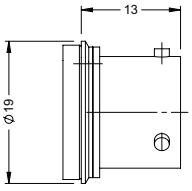
POLYURETHANE/RAYCHEM CABLE



MICRO DIN (9.4 mm PITCH)



STANDARD TEMP (TB)
MIL-C-26482 BAYONET



HIGH TEMP (TD)
MIL-C-26482 BAYONET

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