

Piezoresistive Pressure Sensors

Type 4260A...
4262A...

for Automotive R&D, Test Applications

A versatile high performance pressure sensor that will operate in harsh test environments where temperature extremes, high vibration and shock levels are present.

- Pressure ranges from -14.7 ... 5000 psi
- 0.05 % FS accuracy
- 0.1 % FS stability per year
- Temperature compensated -40 ... 250 °F
- 300 % proof pressure
- Fast response time
- mV, V and mA electrical output options
- Many voltage output options, 1 ... 5, 0.5 ... 4.5, 0 ... 10 etc.. (3 and 4-wire)
- Intrinsically Safe

Applications

Type 4260/62A... series from Kistler is well suited for demanding pressure applications in the R&D, engine test, road test, component test and other test applications supporting the automotive, aerospace and industrial markets.

Engine and powertrain test

- Engine oil and coolant pressures
- Engine fuel
- Inlet and exhaust pressures
- Barometric pressure
- Transmission pressures

On vehicle test

- Engine oil and coolant pressures
- Engine fuel
- Air conditioning
- Brakes and hydraulics
- Inlet and exhaust pressures

Component and sub-system testing

- Auxiliary power units
- Air conditioning systems
- Fuel, water and oil pumps
- Suspension systems
- ABS test stands
- High pressure fuel control systems
- Flight test
- Leak testing



CE Compliant Information

EMC compliant to EN61326-1:2001/A1/A2 industrial locations compliant with Pressure Equipment Directive (PED) 97/23/EC a Category 1 Pressure Accessory.

Note: "Pressure Range" is equivalent to max. working pressure (PS) as referred to in the PED.

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Description

Type 4260/62A... series sensor is based upon proven Kistler piezoresistive sensing technology that has been continually developed and refined since the early 1970's. A silicon sensing element is mounted within a high integrity seal assembly that is fully isolated from the pressure media by a welded 316L stainless steel or Hastelloy™ diaphragm. The silicon sensing element exhibits high performance for stability and repeatability, extremely important parameters for the Test Engineer.

The pressure sensing assembly features a unique sealing method (US Patent 7, 373, 827) that enables the sensor to withstand multiple cycles without fatigue that is especially useful in cyclic applications. This design also enables flexibility in choice of pressure connections without the use of adaptors or 'O' rings.

Surface mount electronics condition the output from the silicon sensing element and provide temperature compensation. Additional electronic circuit boards can then be added to configure the electrical output for a wide choice of voltage and mA outputs. As a result, Type 4260/62A... series can be quickly

configured at the factory to the customer's choice of electrical output to suit a variety of data acquisition systems. Additionally, non-interactive zero and span calibration adjustments can be provided.

EMC protection, reverse polarity, power supply regulation, over voltage and short circuit protection is provided, ensuring Type 4260/62A... series is well suited for the harsh test environments that are commonplace in the automotive and aerospace test markets.

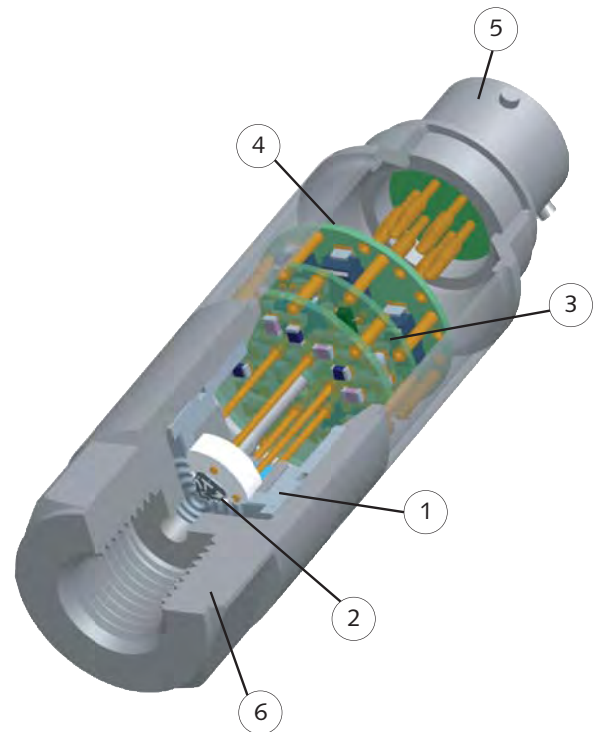
Type 4260/62A... series is available with options for use in ATEX zoned hazardous area: Zone 0, intrinsically safe $\text{C} \text{E} \text{E} \text{I} \text{I} \text{1G}$ and Zone 2, non-incendive $\text{E} \text{E} \text{I} \text{I} \text{3G}$. $\text{C} \text{S} \text{A}$ certified 2009 2053869 single seal.

Type 4260/62A... series is stocked in popular types and pressure ranges. Prior to shipping the sensor is adjusted to suit the required pressure range and engineering units, the zero and span checked and the sensor finally completed with a choice of electrical and pressure connections.

Finally, every Type 4260/62A... series sensor is fully tested over both pressure and temperature to ensure compliance to the specifications. This data is available for each sensor and is traceable to ISO 17025 and NIST.

Construction

- 1 Pressure capsule: high integrity 316L stainless steel glass to metal seal with Hastelloy™ or 316L stainless steel isolation diaphragm.
- 2 Sensing element: etched cavity, micro-machined silicon with ion implanted strain gauges.
- 3 Conditioning electronics: surface mount electronics that are fully encapsulated for high vibration and shock environments.
- 4 Protection: circuit board includes RFI/EMI protection, reverse polarity, over voltage and short circuit protection.
- 5 Electrical connection: choices can be specified by the customer.
- 6 Pressure connection: wide choice of welded pressure fittings.



4260A_000-685a-06.11

General Technical Data

Type	Unit	4260A...	4262A...
Pressure range	psi	15, 30, 45, 50, 60, 75, 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000 (psiA)	1.5, 2.5, 3, 5, 7.5, 15, 10, 30, 50, 75, 100, 150, 200, 300, 500 (psiG)
	psiS	N/A	750, 1000, 1500, 2000, 3000, 5000
	options	intermediate ranges available barometric: 11.5 ... 17.5 (psiA)	compound ranges: -14.7 ... 14.7, -14.7 ... 30, -14.7 ... 60, -14.7 ... 100, -14.7 ... 130 bi-directional ranges ±2.5, ±3, ±10
Proof pressure	psi	>3 x FS pressure	
Burst pressure	psi		>4 x FS pressure
Output			mV, V or mA
Operating temperature	°F		-65 ... 250 (mV or V)
	°F		-65 ... 175 (mA)
Compensated temperatures	°F		-40 ... 250 (mV or V)
	°F		-40 ... 175 (mA)
Accuracy at T _{ref} (non-linearity, hysteresis, repeatability) ¹⁾	± %BFSL		0.2 (≤15 psig) 0.1 (>15 psig)
Thermal effects (reference 68 °F)			
15 ... 122 °F	%Span		1.0
-40 ... 250 °F (175 °F for mA version) Pro rate for pressures below 15 psi	%Span		1.5
-4 ... 176 °F for barometric	%FS		2.0
32 ... 122 °F for barometric	%FS		1.0
Long term stability (12 months)	%Span		±0.1

Note: For special calibration, please call Kistler

1) Premium accuracy available, contact Kistler

General electrical specifications

Supply voltage			
mV versions	V		5 ... 15
Voltage versions	V		refer to table voltage versions; electrical specs
mA versions	V		9 ... 28
DC output impedance	ohms		<200 (V output)
Minimum load resistance	ohms		2500 (V output), 5000 (-5 ... 5 V output, 4 wire), 20000 (-5 ... 5 V, 3 wire)
Supply voltage effects max. (regulated units)	%Span/V		0.005
Warm up time	msec		<1 (V output) <3 (mA output)
Output noise typical	mVrms		<1 (V output), <0.1 (mA output)
Zero setting	mV versions	%FS	±3
	V and mA versions	%FS	±1
Span setting	mV versions	%FS	±3
	V and mA versions	%FS	±1
Frequency response, max.	Hz		2000
Options non-interactive zero and span adjust		%FS	±5
	Shunt calibration (Rcal), ±20 % (V only)	%FS	80

Voltage versions; electrical specifications

V output (VDC)	Supply Voltage (VDC)	Current Drain (mA)
0.5 ... 4.5 / Ratiometric / 3-wire	5 ±0.5	<2
1 ... 6 / 0.5 ... 4.5 / 0.1 ... 5 VDC / 3-wire	max. output + 0.5 (low power, limited protection)	<2.5
	8 ... 42	<3 ... 6
0 ... 5 / 4-wire	8 ... 42	<3 ... 6
0 ... 10 / 4-wire	13 ... 42	<3 ... 6
-5 ... 5 / 4-wire	13 ... 42	<6 ... 8.5
-5 ... 5 / 3-wire active offset	13 ... 42	<7 ... 16
0 ... 5 / 3-wire active offset	7 ... 42	<7 ... 16
0 ... 10 / 3-wire active offset	13 ... 42	<7 ... 16

General Technical Data

Type	Unit	4260A...	4262A...
Pressure range	psi	15, 30, 45, 50, 60, 75, 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000 (psiA)	1.5, 2.5, 3, 5, 7.5, 10, 15, 50, 30, 75, 100, 150, 200, 300, 500 (psiG)
	psiS	N/A	750, 1000, 1500, 2000, 3000, 5000
	options	intermediate range available barometric: 11.5 ... 17.5 (psiA)	compound ranges: -14.7 ... 15, -14.7 ... 30, -14.7 ... 60, -14.7 ... 100, -14.7 ... 130 bi-directional ranges ±2.5, ±3, ±10
Temperature limits			
Operating	mV and V	°F	-65 ... 255
	mA	°F	-65 ... 175
Storage	mV and V	°F	-65 ... 255
	mA	°F	-65 ... 212
Design life	FS cycles	50 million at 2Hz	
Vibration, 50 g peak, 10 Hz to 2 kHz per	%FS/g	response <0.05	
Shock	MIL-STD-202G Method 204D, condition E		
	1000g, 0.5 msec half sine pulse in 3 mutually perpendicular axes will not affect performance MIL-STD-202G, Method 213B-1, condition E		
	100g, 6 msec half sine pulse in 3 mutually perpendicular axes will not affect performance MIL-STD-202G, Method 213B-1, condition C		
Acceleration sensitivity	%FS/g	<0.05 (reducing with increasing pressure range)	
Insulation resistance, at 500 VDC	Mohm	100	
Approvals	CE compliant to EN61326:1998+A1 + A2:2001 (IEC 61326:2002)		
	Pressure equipment directive 97/23/EC (PED), category 1, pressure accessory		
Hazardous area certification	IS Zone 0 Ex ia IIC T4 (-40 °F ≤ Ta ≤ 175 °F) Ⓒ Ⓔ II 1G		
	Non-incendive Zone 2Ex nL IIC T4 (-40 °F ≤ Ta ≤ 175 °F) Ⓒ II 3G		
	CSA certified 2009 2053869 single seal		

Physical Technical Data

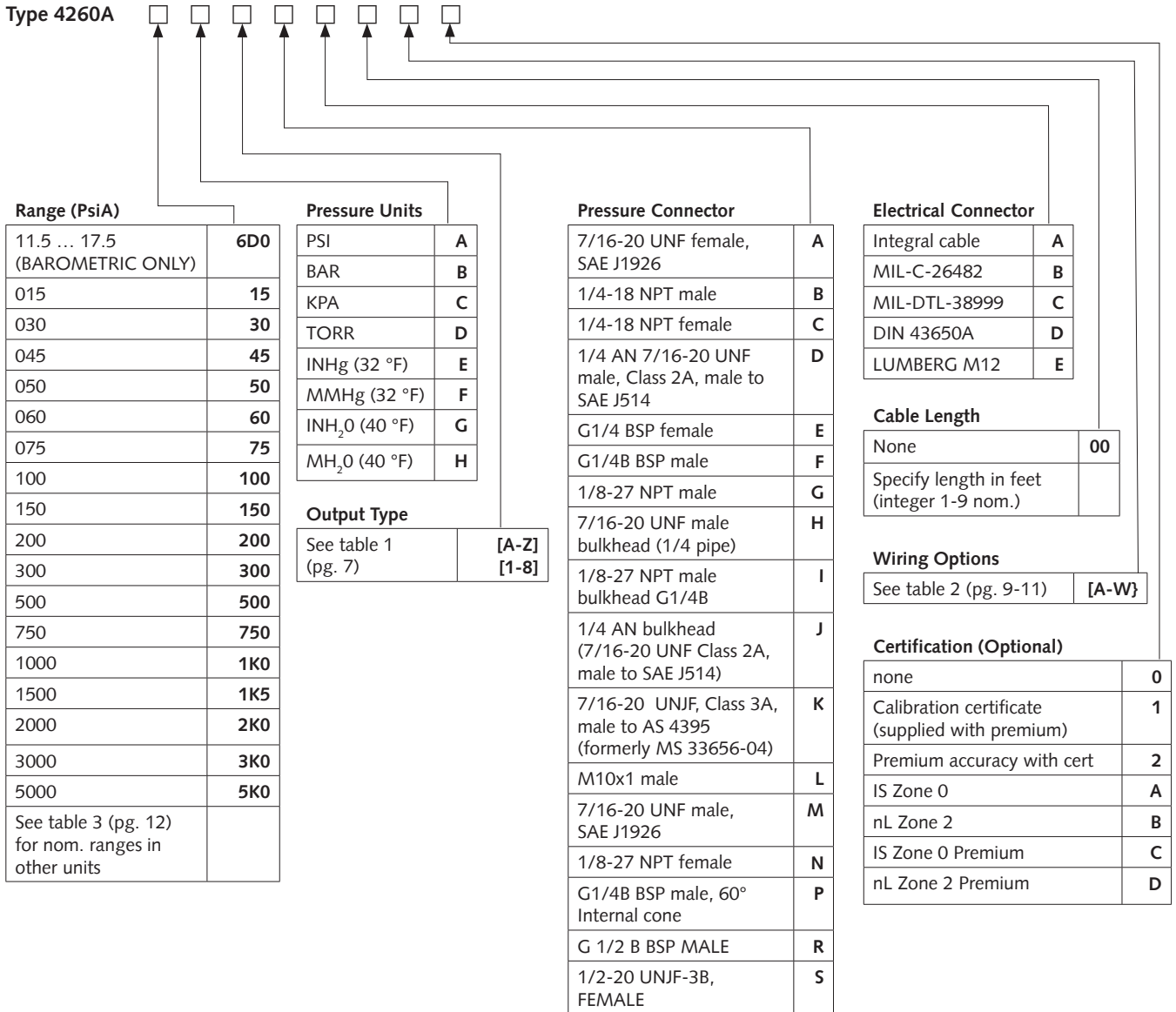
Type	Unit	4260A...	4262A...
Pressure range	psi	15, 30, 45, 50, 60, 75, 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000 (psiA)	1.5, 2.5, 3, 7.5, 10, 15, 30, 50, 75, 100, 150, 200, 300, 500 (psiG)
	psiS	N/A	750, 1000, 1500, 2000, 3000, 5000
	options	intermediate range available barometric: 11.5 ... 17.5 (psiA)	compound ranges: -14.7 ... 15, -14.7 ... 30, -14.7 ... 60, -14.7 ... 100, -14.7 ... 130 bi-directional ranges ±2.5, ±3, ±10
Electrical connections		see ordering information	
Pressure connections		see ordering information	
Installation torque	lbf-ft	11.1	
Environmental protection	Cable, DIN versions	protection	IP65
	Connector versions	protection	IP65
Weight	oz	<8	
Media compatibility	material	Stainless Steel 316L	

4260A_000-685a-06.11

Ordering Key

Absolute Pressure

Type 4260A



Range (PsiA)	
11.5 ... 17.5 (BAROMETRIC ONLY)	6D0
015	15
030	30
045	45
050	50
060	60
075	75
100	100
150	150
200	200
300	300
500	500
750	750
1000	1K0
1500	1K5
2000	2K0
3000	3K0
5000	5K0
See table 3 (pg. 12) for nom. ranges in other units	

Pressure Units	
PSI	A
BAR	B
KPA	C
TORR	D
INHg (32 °F)	E
MMHg (32 °F)	F
INH ₂ O (40 °F)	G
MH ₂ O (40 °F)	H

Output Type	
See table 1 (pg. 7)	[A-Z] [1-8]

Pressure Connector	
7/16-20 UNF female, SAE J1926	A
1/4-18 NPT male	B
1/4-18 NPT female	C
1/4 AN 7/16-20 UNF male, Class 2A, male to SAE J514	D
G1/4 BSP female	E
G1/4B BSP male	F
1/8-27 NPT male	G
7/16-20 UNF male bulkhead (1/4 pipe)	H
1/8-27 NPT male bulkhead G1/4B	I
1/4 AN bulkhead (7/16-20 UNF Class 2A, male to SAE J514)	J
7/16-20 UNJF, Class 3A, male to AS 4395 (formerly MS 33656-04)	K
M10x1 male	L
7/16-20 UNF male, SAE J1926	M
1/8-27 NPT female	N
G1/4B BSP male, 60° Internal cone	P
G 1/2 B BSP MALE	R
1/2-20 UNJF-3B, FEMALE	S

Electrical Connector	
Integral cable	A
MIL-C-26482	B
MIL-DTL-38999	C
DIN 43650A	D
LUMBERG M12	E

Cable Length	
None	00
Specify length in feet (integer 1-9 nom.)	

Wiring Options	
See table 2 (pg. 9-11)	[A-W]

Certification (Optional)	
none	0
Calibration certificate (supplied with premium)	1
Premium accuracy with cert	2
IS Zone 0	A
nL Zone 2	B
IS Zone 0 Premium	C
nL Zone 2 Premium	D

Pressure Adaptors: Optional Accessories for Type 4260A...

- 7/16-20 UNF male to 1/4 NPT male 6570
- 7/16-20 UNF male to 7/16-20 UNF male 6572
- 7/16-20 UNF male to 1/8-27 NPT male 6574

Absolute Premium Accuracy

Premium accuracy: ±0.05% FS to ±0.125% FS (availability based on selected pressure sensor, contact Kistler).

Electrical Connector: Optional Accessories for Type 4260A...

- Din 43650A Hirschman, mating connector 1500A89
- MIL-C26482 Amphenol, mating connector 1500A90

4260A_000-685a-06.11

Ordering Key

Gauge Pressure

Type 4262A

Range (PsiG)		Pressure Units		Pressure Connector		Electrical Connector	
1.5	1D5	PSI	A	7/16-20 UNF female, SAE J1926	A	Integral cable	A
2.5	2D5	BAR	B	1/4-18 NPT male	B	MIL-C-26482	B
3.0	3D0	KPA	C	1/4-18 NPT female	C	MIL-DTL-38999	C
5.0	5D0	TORR	D	1/4 AN 7/16-20 UNF male, Class 2A, to SAE J514	D	DIN 43650A	D
7.5	7D5	INHg (32 °F)	E	G1/4 BSP female	E	LUMBERG M12	E
10	010	MMHg (32 °F)	F	G1/4B BSP male	F		
15	015	INH ₂ O (40 °F)	G	1/8-27 NPT male	G		
±10	B01	MH ₂ O (40 °F)	H	7/16-20 UNF male bulkhead (1/4 pipe)	H		
±3	B02			1/8-27 NPT male bulkhead G1/4B	I		
±2.5	B03			1/4 AN bulkhead (7/16-20 UNF Class 2A, male to SAE J514)	J		
-14.7 ... 15	C01			7/16-20 UNJF, Class 3A, male to AS 4395 (formerly MS 33656-04)	K		
-14.7 ... 30	C02			M10x1 male	L		
-14.7 ... 100	C03			7/16-20 UNF male, SAE J1926	M		
-14.7 ... 60	C04			1/8-27 NPT female	N		
-14.7 ... 130	C05			G1/4B BSP male, 60° Internal	P		
30	030			G 1/2 B BSP MALE	R		
50	050			1/2-20 UNJF-3B, FEMALE	S		
75	075						
100	100						
150	150						
200	200						
300	300						
500	500						
750	750						
1000	1K0						
1500	1K5						
2000	2K0						
3000	3K0						
5000	5K0						
See table 3 (pg. 12) for nom. ranges in other units							

Output Type	
See table 1 (pg. 7)	[A-Z] [1-8]

Cable Length	
None	00
Specify length in feet (integer 1-9 nom.)	

Wiring Options	
See table 2 (pg. 9-11)	[A-W]

Certification (Optional)	
none	0
Calibration certificate (supplied with premium)	1
Premium accuracy cert ³⁾	2
IS Zone 0	A
nL Zone 2	B
IS Zone 0 Premium ³⁾	C
nL Zone 2 Premium ³⁾	D

Gauge Premium Accuracy

Premium accuracy: ±0.05% FS to ±0.15% FS (availability based on selected pressure sensor, contact Kistler).

Pressure Adaptors: Optional Accessories for Type 4262A...

- 7/16-20 UNF male to 1/4 NPT male 6570
- 7/16-20 UNF male to 7/16-20 UNF male 6572
- 7/16-20 UNF male to 1/8-27 NPT male 6574

Electrical Connector: Optional Accessories for Type 4262A...

- Din 43650A Hirschman, mating connector 1500A89
- MIL-C26482 Amphenol, mating connector 1500A90

4260A_000-685 a-06.11

Table 1

Output Accuracy and Electrical Output Configuration

Code	Output
A	mV (10 mV/V)
C	4-20 mA
E	4-20 mA, adjustable cal-adjust
F	1 ... 6 VDC (3-wire)
H	1 ... 6 VDC (3-wire) cal-adjust
I	0.5 ... 4.5 VDC (3-wire)
K	0.5 ... 4.5 VDC (3-wire) cal-adjust
L	0.1 ... 5 VDC (3-wire)
N	0.1 ... 5 VDC (3-wire), cal-adjust
O	0.5 ... 4.5 VDC (3-wire) low power, 5 V supply
Q	0.5 ... 4.5 VDC (3-wire) low power, 5 V supply, cal-adjust
R	0 ... 10 VDC (4-wire)
T	0 ... 10 VDC (4-wire), cal-adjust
U	-5 ... 5 VDC (4-wire)
W	-5 ... 5 VDC (4-wire), cal-adjust
X	0 ... 5 VDC (4-wire)
Z	0 ... 5 VDC (4-wire), cal-adjust
1	0 ... 5 VDC (3-wire) active offset, cal. adjust
2	0 ... 10 VDC (3-wire) active offset, cal. adjust
3	0.5 ... 4.5 VDC (3-wire) low power ratiometric
4	-5 ... 5 VDC (3-wire) active offset, cal. adjust
5	0.5 ... 4.5 VDC (3-wire) low power ratiometric, cal-adjust
6	0 ... 5 VDC (3-wire) active offset
7	0 ... 10 VDC (3-wire) active offset
8	-5 ... 5 VDC (3-wire) active offset

Calibration Data

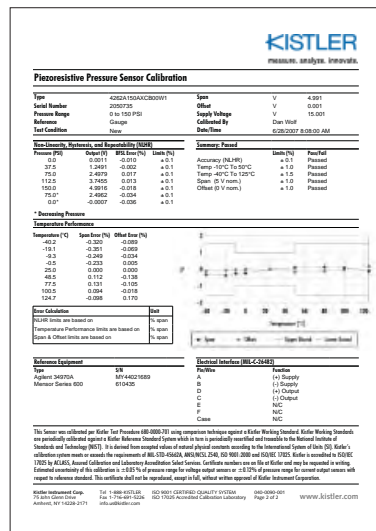
Calibration data is available for all Type 4260/62A... series sensors and is supplied as standard with all premium accuracy sensors.

The following information is provided on the calibration sheet and provides a comprehensive summary of the actual performance of the sensor compared to specification:

- Non-linearity, hysteresis & repeatability at room temperature
- Zero setting and span setting at room temperature
- Thermal zero shift and thermal span shift through the compensated temperature range
- Pass/fail summary
- Electrical connection details

All data is traceable to the National Institute of Standards and Technology (NIST) and is ISO17025 certified.

Type 4260/62A... series can be provided with custom calibrations for specific applications.



Special Calibration

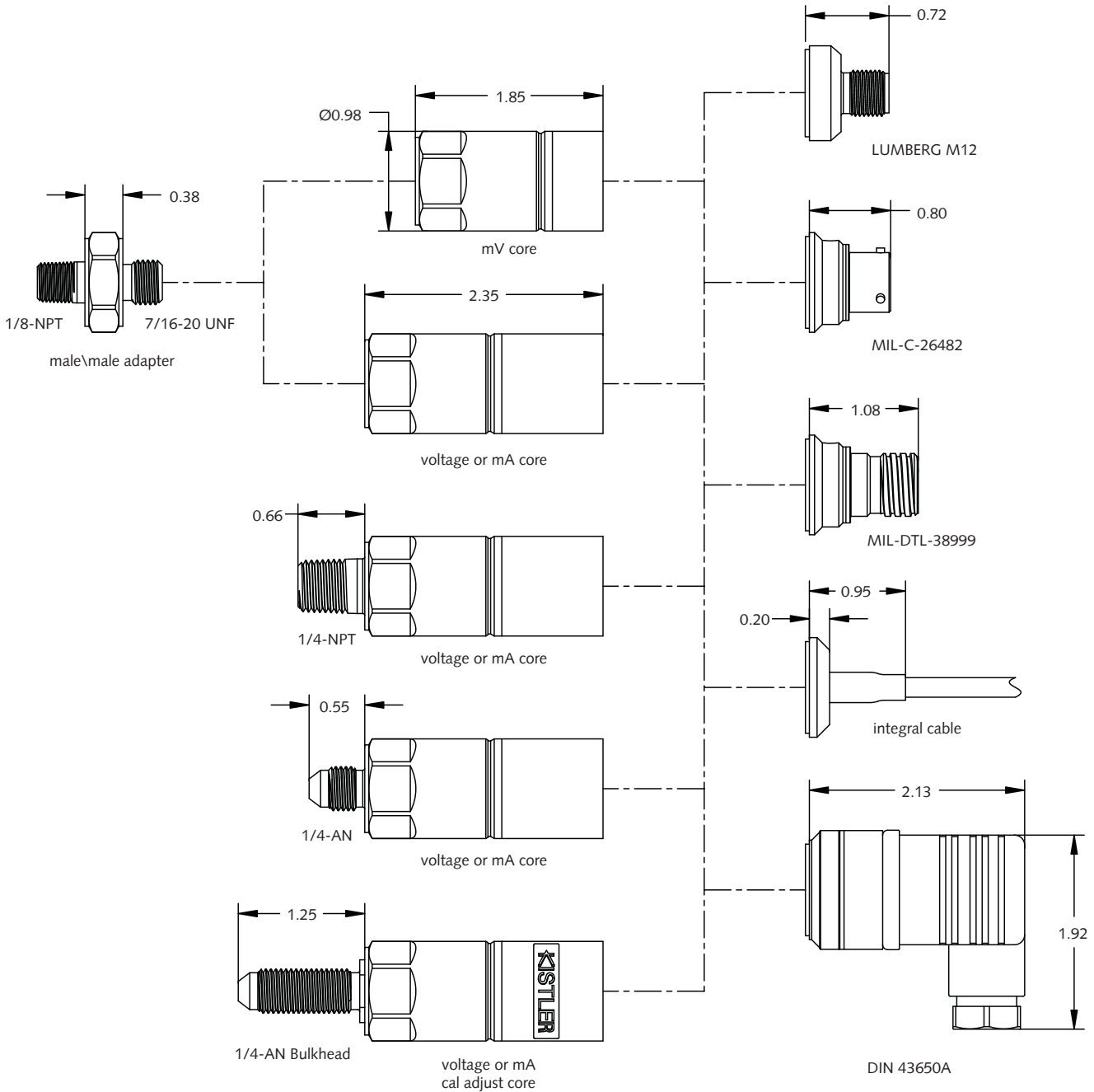
Custom calibrations include improved Static Error Band, improved temperature effects over custom temperature limits and improved zero and span setting tolerances. Examples of improved temperature errors (thermal zero and thermal span shift) include:

- 0.5 % FS over 14 ... 122 °F
- 1.0 % FS over 14 ... 255 °F
- 1.0 % FS over -40 ... 122 °F

Contact Kistler to discuss special calibration requirements.

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Dimensional Information



Note: Common pressure and electrical connections shown, other options are available

4260A_000-685 a-06.11

Table 2

Wiring Option, Voltage Output

Option A: Cable, 4-Wire with Shunt Rcal.

Wire Color	Connection
Red	(+) Supply
Blue	(-) Supply
Yellow	(+) Output
Green	(-) Output
Brown	Shunt
Black	Not connected
Shield	Not connected

Option B: Cable, 4-Wire

Wire Color	Connection
Red	(+) Supply
Blue	(-) Supply
Yellow	(+) Output
Green	(-) Output
Black/Brown	Not connected
Shield & Drain	Not connected

Option C: Cable, 3-Wire with Shunt Rcal.

Wire Color	Connection
Red	(+) Supply
Blue	(-) Supply (-) Output
Yellow	(+) Output
Brown	Shunt
Green/Black	Not connected
Shield	Not connected

Option D: Cable, 3-Wire

Wire Color	Connection
Red	(+) Supply
Blue	(-) Supply (-) Output
Yellow	(+) Output
Green/Black/Brown	Not connected
Shield	Not connected

Option E: Cable, 3-Wire with Shunt Rcal.

Wire Color	Connection
Red	(+) Supply
Black/Green	(-) Supply (-) Output
Yellow	(+) Output
Blue	Shunt
Brown	Not connected
Shield	Not connected

Option F: Connector, 4-Wire with Shunt Rcal.

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
D	4	(-) Supply
B	2	(+) Output
C	3	(-) Output
E	5	Shunt
F	6	Not connected
Case	Case	Not connected

Option G: Connector, 4-Wire

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
D	4	(-) Supply
B	2	(+) Output
C	3	(-) Output
E/F	5/6	Not connected
Case	Case	Not connected

Option H: Connector, 4-Wire with Shunt Rcal.

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
B	2	(-) Supply
C	3	(+) Output
D	4	(-) Output
E	5	Shunt
F	6	Not connected
Case	Case	Not connected

Connections

A ... F MIL-C-26482
1 ... 6 MIL-DTL-38999

4260A_000-685 a-06.11

Table 2 (continued)

Wiring Option Voltage Output

Option I: Connector, 4-Wire

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
B	2	(-) Supply
C	3	(+) Output
D	4	(-) Output
E/F	5/6	Not connected
Case	Case	Not connected

Option M: Connector, 3-Wire

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
D, C	4, 3	(-) Supply (-) Output
B	2	(+) Output
E/F	5/6	Not connected
Case	Case	Not connected

Option J: Connector, 4-Wire with Shunt Rcal.

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
C	3	(-) Supply
D	4	(+) Output
B	2	(-) Output
E	5	Shunt
F	6	Not connected
Case	Case	Not connected

Option N: Connector, 3-Wire with Shunt Rcal.

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
B, C	2, 3	(-) Supply (-) Output
D	4	(+) Output
E	5	Shunt
F	6	Not connected
Case	Case	Not connected

Option K: Connector, 4-Wire

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
C	3	(-) Supply
D	4	(+) Output
B	2	(-) Output
E/F	5/6	Not connected
Case	Case	Not connected

Option U: Connector, 3-Wire

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
B, C	2, 3	(-) Supply (-) Output
D	4	(+) Output
E, F	5, 6	Not connected
Case	Case	Not connected

Option W: Connector, 4-Wire

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
B	2	(-) Supply
C	3	(-) Output
D	4	(+) Output
E/F	5/6	Not connected
Case	Case	Not connected

Option X: Connector, 3-Wire

Pin (connector D and E)	1	2	3	4
Connection	(+) Supply	(-) Supply/ Output	(+) Output	Case ground

Option L: Connector, 3-Wire with Shunt Rcal.

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
D, C	4, 3	(-) Supply (-) Output
B	2	(+) Output
E	5	Shunt
F	6	Not connected
Case	Case	Not connected

Option Y: Connector, 3-Wire

Pin (connector D and E)	1	2	3	4
Connection	(-) Supply/ Output	(+) Output	(+) Supply	Case ground

Connections

- A ... F MIL-C-26482
- 1 ... 6 MIL-DTL-38999
- 1 ... 4 DIN 43650A

4260A_000-685 a-06.11

Table 2 (continued)

Wiring Option mV Output

Option Q: Cable

Wire Color	Connection
Red	(+) Supply
Blue	(-) Supply
Green	(-) Output
Yellow	(+) Output
Shield	Not connected
Black/Brown	Not connected

Option S: Cable

Wire Color	Connection
Red/ Brown	(+) Supply
Blue/ Black	(-) Supply
Green	(-) Output
Yellow	(+) Output
Shield	Not connected

Option T: Connector

Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
D	4	(-) Supply
B	2	(+) Output
C	3	(-) Output
F	6	Not connected
E	5	Case

Option V: Connector, Remote Supply Monitoring

Pin (connector B)	Pin (connector C)	Connection
A, B	1, 2	(+) Supply
D, C	3, 4	(-) Supply
E	5	(+) Output
F	6	(-) Output
Case	Case	Not connected

Loop Powered Current 4 ... 20 mA:

Option O: Cable, 2-Wire

Wire Color	Connection
Red	(+) Supply
Blue	(-) Output/(-) Supply
Black	Case ground
Shield	Not connected
Green/Yellow/Brown	Not connected

Option P: Connector, 2-Wire

(Electrical Connector Options B & C Only)

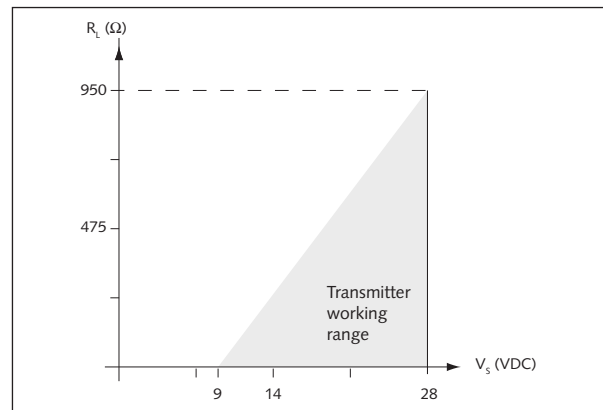
Pin (connector B)	Pin (connector C)	Connection
A	1	(+) Supply
C	3	(-) Output (-) Supply
E	5	Case ground*
B, D, F	2, 4, 6	Not connected

Option R: Din Connector, 2-Wire

(Electrical Connector Option D Only)

Pin	Connection
1	(+) Supply
3	(-) Output/(-) Supply
4	Case ground (DC)
2	Not connected

Loop Resistance Chart



Load Chart for 4 ... 20 mA (loop powered current output)	
Key	Description
V_s	Voltage at the terminal of transmitter
R_L	Load resistance

Min. required working voltage is given by
 $V_s (0.02 \times R_L) + 9V$

4260A_000-685a-06.11

Connections
 A ... F MIL-C-26482
 1 ... 6 MIL-DTL-38999



measure. analyze. innovate.

Table 3
Pressure Units for Ordering Codes

Code	A Psi	B Bar	C Kpa	D Torr	E INHG @ 32 °F	F MMHG @ 32 °F	G INH2O @ 40 °F	H MH2O @ 40 °F
1D5	1.5	0.1	10	75	3	75	40	1
2D5	2.5	0.17	17	125	5	125	70	1.7
3D0	3	0.2	20	150	6	150	80	2
5D0	5	0.35	35	250	10	250	140	3.5
6D0	11.5 ... 17.5	0.75 ... 1.15	75 ... 115		23 ... 36	600 ... 900		
7D5	7.5	0.5	50	375	15	375	200	5
010	10	0.7	70	525	20	525	280	7
015	15	1	100	750	30	750	400	10
030	30	2	200		60	1500	800	20
045	45	3	300		90	2350	1260	30
050	50	3.5	350		100	2500	1400	35
060	60	4	400		120	3000	1600	40
075	75	5	500		150	3750	2000	50
100	100	7	700		200	5000	2750	70
150	150	10	1000		300	7500	4000	100
200	200	14	1400		400	10000	5500	140
300	300	20	2000		600	15000	8000	200
500	500	35	3500		1000	25000	14000	350
750	750	50	5000		1500	37500	20000	500
1K0	1000	70	7000		2000	50000	27500	700
1K5	1500	100	10000		3000	75000	40000	1000
2K0	2000	140	14000		4000	100000	55000	1400
3K0	3000	200	20000		6000	150000	80000	2000
5K0	5000	350	35000		10000	250000	140000	3500
C01	-14.7	-1	-100		-29.4	-750	-400	-10
	15	1	100		30	750	400	10
C02	-14.7	-1	-100		-29.4	-750	-400	-10
	30	2	200		60	1500	800	20
C03	-14.7	-1	-100		-29.4	-750	-400	-10
	100	7	700		200	5000	2750	70
C04	-14.7	-1	-100		-29.4	-750	-400	-10
	60	4	400		120	3000	1600	40
C05	-14.7	-1	-100		-29.4	-750	-400	-10
	130	9	900		270	6750	3600	90
B01	-10	-0.7	-70		-20	-525	-280	-7
	10	0.7	70		20	525	280	7
B02	-3	-0.2	-20		-6	-150	-80	-2
	3	0.2	20		6	150	80	2
B03	-2.5	-0.17	-17		-5	-125	-70	-1.7
	2.5	0.17	17		5	125	70	1.7

4260A_000-685a-06.11