

High Temperature Pressure Transducers & Transmitters

HT-SKL Series

- High accuracy & reliability
- Ranges Vacuum to 2,000 bar
- 2 or 3 wire mA & voltage outputs
- Wide choice of connectors
- Temperature 160°C/180°C
- Compact and rugged design



For applications with high media temperatures up to 160°C (continuous operation) or 180°C (intermittent), the HT-SKL silicon technology pressure sensor uses a dry measuring cell. It is equipped with body cooling fins to enable precise measurements up to 2000 bar, even whilst exposed to severe thermal loading.

Plant Engineering
Industrial Machinery
Chemical & Process
Hydraulics and Pneumatics
Automotive

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TECHNICAL SPECIFICATIONS

Standard pressure ranges & signal outputs

Measuring range*(bar)	1	1.6	2	2.5	4	6	10
Overload pressure	6	6	6	6	10	20	20
Burst pressure	9	9	9	9	15	30	30
Measuring range (bar)	16	20	25	40	60	100	160
Overload pressure	40	40	100	100	200	200	400
Burst pressure	60	60	150	150	300	300	600
Measuring range (bar)	200	250	400	600	1000	1600	2000
Overload pressure	400	750	750	840	1200	2400	2400
Burst pressure	600	1000	1000	1050	1500	3000	3000

*Gauge ranges shown - vacuum and absolute ranges available on request

Electrical	2 wire / 3 wire	3 wire	3 wire	ratiometric
Output signal	4-20mA	0-10Vdc	1-5Vdc	0.5-4.5Vdc
Supply voltage	9-32Vdc	12-32Vdc	8-32Vdc	5Vdc ± 10%

- Media temperature -40°C to +160°C (+180°C up to 15 minute duration max)
- Compensated range -20°C to +85°C
- Ambient temperature -40°C to +105°C

Performance

- Accuracy: Non-linearity, hysteresis and non-repeatability at room temperature according to IEC 61298-2 (or BSFL/Best Fit Straight Line) <0.5% FS range (<0.25% BFSL) *Optional <0.25% FS (<0.15% BFSL)*
- Temperature effects: Zero/Span typical thermal coefficients: <0.15% FS range / 10°C
- Total Error Band: 2% FS from room temperature to -40°C or +105°C
- Long term stability: <0.1% FS range/year
- Response time: <1ms (from 10% to 90% FS range)
- Vibration resistance: 20g (according to IEC 68-2-6 and IEC 68-2-36)
- Shock resistance: 1000g (according to IEC to 68-2-32)

Physical

- Material: body - stainless steel, pressure inlet port - stainless steel
- Process connection: G1/4A, G1/4B, G1/2B, 1/4 NPT, M18 x 1.5
Other connections available on request
- Electrical connection: integral cable, M12 x 1 male socket, DIN plug/socket (DIN EN 175301-803)
Other connections available on request
- Weight: approximately 250g (dependent upon configuration)
- Ingress protection: IP65 (for connector versions with their mating plug fitted)

Options

(1) Additional cable (per metre - specify total length required)

Related products

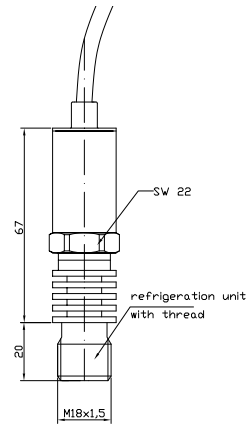
Hydrotechnik manufactures a wide range of sensors, test and measurement equipment.

Contact us for further information or visit www.hydrotechnik.co.uk

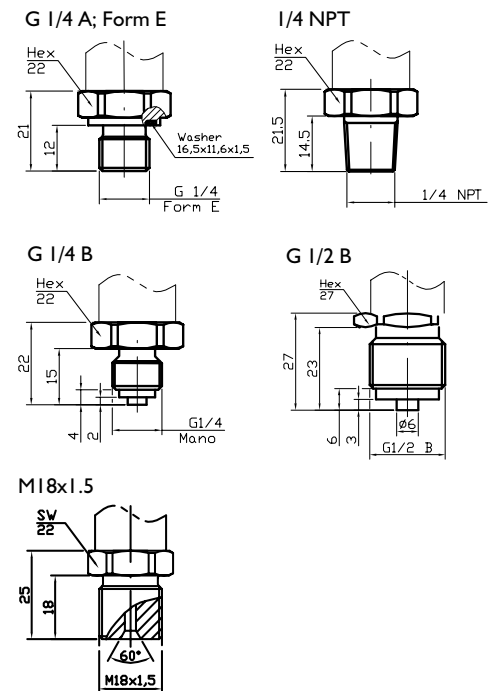
Continuing development can necessitate specification changes without notice

Dimensions

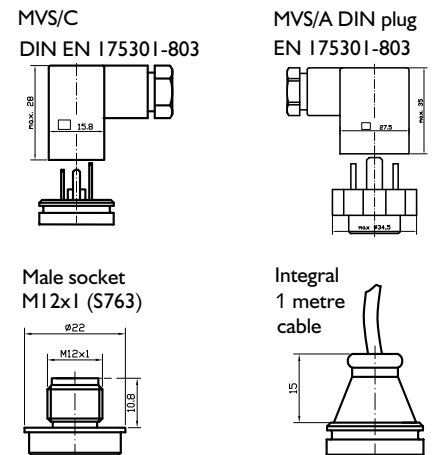
HT-SKL with M18x1.5 connection



Mechanical Connections



Electrical Connections



HT-SKL Series ORDER CODES

Series	Output Signal	Pressure Range	Unit	Pressure Type	Process Connection	HEX	Electrical Connection	Extras
HT-SKL	20.1	0100000	PSI	(sr)	U98M	22	KS2	-

4 ... 20 mA / 2 wires	10.0
0 ... 20 mA / 3 wires	10.1
4 ... 20 mA / 3 wires	10.2
0 ... 10 V	20.0
1 ... 5 V	20.1
0 ... 6 V	20.20
0 ... 5 V	20.4
0.5 ... 4.5 V ratiom.	37.0
0.5 ... 4.5 V non rat.	40.0
Others	AAA

bar	BAR
kPa	KPA
MPa	MPA
PSI	PSI
kg/cm2	KGC
m WC	MWS
in WC	IWS
others	CCC

Relative Pressure	(g)
Sealed Reference	(sr)

-1 ... 0	9000100		
-1 ... +1	9000900		
0 ... 1	0000100	0 ... 40	0004000
0 ... 1.6	0000160	0 ... 60	0006000
0 ... 2	0000200	0 ... 100	0010000
0 ... 2.5	0000250	0 ... 160	0016000
0 ... 4	0000400	0 ... 200	0020000
0 ... 10	0001000	0 ... 250	0250000
0 ... 16	0001600	0 ... 400	0400000
0 ... 20	0002000	0 ... 600	0600000
0 ... 25	0002500	0 ... 1000	0100000
		0 ... 1600	0160000
		0 ... 2000	0200000
		Others	BBB

G 1/8 A Shape A	G18A	22
G 1/4 A Shape A	G14A	22
G 1/4 A Shape E	G14E	22
G 1/4 B (Manom.)	G14B	22
G 1/2 B (Manom.)	G12B	22
G 1/2 A Shape E	G12E	27
1/8 NPT	I8NP	22
1/4 NPT	I4NP	22
7/16-20 UNF-2A	U72M	22
7/16-20 UNF-2A/2C	U72C	22
7/16-20 UNF-2B	U72F	22
3/8-24 UNF-2A	U38M	22
3/8-24 UNF-2A/C	U38C	22
1/2-20 UNF-2A	U12M	22
M 8x1 Shape A	M08M	22
M 10x1 Shape A	M10A	22
M 12x1 Shape E	M12E	22
M 12x1 Konical	M12C	22
M 12x1.5 CT-Ring	M12S	22
M 14x1.5 Shape A	M14A	22
M 14x1.5 Shape E	M14E	22
M 14x1.5 ISO	M140	22
M 16x1.5 Shape A	M16A	22
M 16x1.5 female	M16F	22
M 18x1.5 male	M18M	22
M 20x1.5 Manom.	M20B	22
R 1/4 male	R14M	22
Others	DDDD	EE

MVC/A	MVA
MVC/C	MVC
Hirschmann Mini	HIM
LEMO EWB IS	LMS
IS9 Industrial Socket	IS9
Packard	PAI
Male Socket M 5 / S707	M05
Male Socket M 12 / S763	M12
Male Socket M 16 / S723	M16
Male Socket M 18 / S714	M18
Junior Timer	JTI
Bajonet DIN 72585	BJD
Bajonet VG 95234	BJV
Super Seal	SUS
Deutsch 3-poles	D03
Deutsch 4-poles	D04
QUICK ON	QON
Flying Leads 1.0*	FLI
Cable Gland Plastic	CPI
Cable Steel 1.0*	KSI
Cable Plastic 1.0 *	KPI
Others	FFF

* e.g. with cable length 1 metre

Restrictor 0.6 mm	RO6
Restrictor others	RXX
Total Error Other	FXX
Cleaned for Oxygen Use	O2C
Metal Cone	SC0
Schrader Opener 2.9	S29
Others (please state).	GG