25 1990 - 2015

HYDROTECHNIK UK LIMITED

Industrial Low Pressure Transducers & Transmitters

HT-SIL Series

- High accuracy and reliability
- Ranges 10 mbar to 40 bar
- 2/3 wire 4-20mA & voltage
- Wide choice of connectors
- Temperature -40°C + 85°C
- Compact and rugged design

The HT-SIL series provides a low pressure version of the popular HT-SML Pressure transducers and transmitters for general industrial applications. A range of specification options provide a perfect solution for a wide range of gases and liquids compatible with stainless steel/silicon.

Plant Engineering

Industrial machinery

Automotive

Hydraulics and Pneumatics

Refigeration & HVAC

Discover more at **www.hydrotechnik.co.uk**

Industrial

Pressure Transducers & Transmitters

HT-SIL Series

TECHNICAL SPECIFICATIONS

Standard pressure ranges & signal outputs

Measuring range * (mbar)	10	16	20	25	40	60	100
Overload pressure	50	80	100	125	200	300	500
Burst pressure	150	240	300	375	600	900	1500
Measuring range (mbar)	160	200	250	400	600	1000	
Overload pressure	800	1000	1250	1200	1800	3000	
Burst pressure	2000	2000	2000	2000	3000	5000	
Measuring range (bar)	1.6	2	2.5	4	6	10	16
Overload pressure	6	6	6	10	20	20	40
Burst pressure	9	9	9	15	30	30	60
Measuring range (bar)	20	25	40				
Overload pressure	40	100	100				
Burst pressure	60	150	150				

* 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 range: -40°C to +85°C
- Compensated temperature range: -10°C to +70°C
- Ambient temperature range: -40°C to +85°C

Performance

- Accuracy: Non-linearity, hysteresis and non-repeatability at room temperature according to IEC 61298-2 (or BSFL/Best Fit Straight Line) <1.0% FS range (<0.5% BFSL) *Optional <0.5% FS range (<0.25% BFSL)*
- Temperature effects: Zero/Span typical thermal coefficients <0.15% FS range / 10°C
- Total Error Band: Maximum 3% 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 & silicon
- Process connection: G 1/4 A, G1/4B, G1/2B, 1/4NPT *Other connections available on request*
- Electrical connection: integral cable (1metre), M12 x 1 male socket, DIN plug/socket, mini DIN plug socket (DIN EN 175301-803) *Other connections available on request*
- Weight: approximately 80-120g (dependent upon configuration)
- Ingress protection: IP65 (for connector versions with their mating plug fitted)

Options

(1) Improved accuracy <0.5% FS (<0.25% BSFL)
(2) additional cable (specify length)
For further options or customised products please contact us.

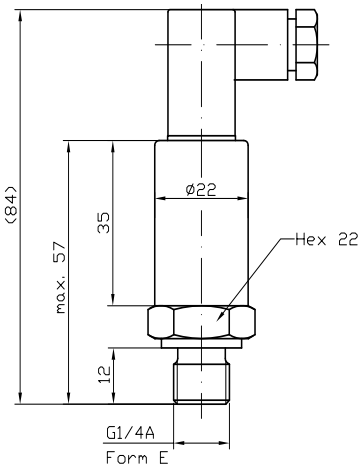
Related products

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

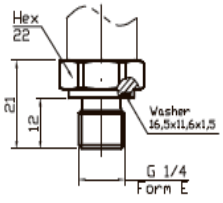
Dimensions

HT-SIL with MVS/A connector

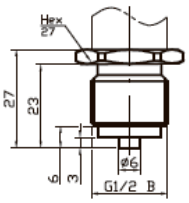


Mechanical Connections

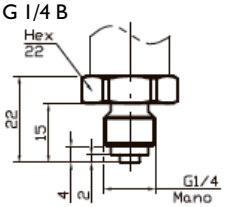
MVS/A DIN EN 175301-803



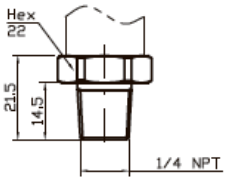
G 1/2 B



G 1/4 B

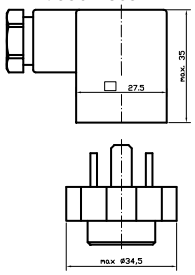


1/4 NPT

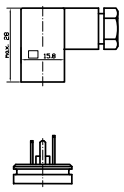


Electrical Connections

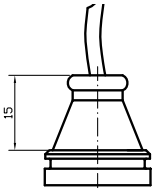
MVS/A DIN EN 175301-803



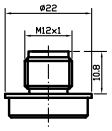
MVS/C DIN EN 175301-803



Cable Output



Male socket M12x1 (S 763)



HT-SIL Series
ORDER CODES

Series	Output Signal	Pressure Range	Unit	Pressure Type	Process Connection	HEX	Electr. Connection	Extras
SIL	37.0	0000060	bar	(g)	14NP	22	M12	-

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 ratiom.	40.0
CANopen 2.0A	60.0
others	AAA

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

Absolute Pressure	(a)
Relative Pressure	(g)
Sealed Reference	(sr)

-1 0	9000100		
-1....+1	9000900		
		0...0.010	0000001
		0...0.020	0000002
		0...0.040	0000004
		0...0.060	0000006
- 0,200 … 0	9000020	0 … 0.200	0000020
- 0,250 … 0	9000025	0 … 0.250	0000025
- 0,400 … 0	9000040	0 … 0.400	0000040
- 0,600 … 0	9000060	0 … 0.600	0000060
0 … 1.0	0000100	0 ... 10	0001000
0 ... 1.6	000160	0..16	0001600
0 ... 2.0	0000200	0...20	0002000
0 ... 2.5	0000250	0...25	0002500
0 ... 4	0000400	0...40	0004000
0 ... 6	0000600		
		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	27
G 1/2 A Shape E	G12E	27
1/8 NPT	18NP	22
1/4 NPT	14NP	22
7/16-18 UNF-2A	U72M	22
7/16-20 UNF-2A/C	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
M8 x 1 male	M08M	22
M10 x 1 Shape A	M10A	22
M12 x 1 Shape E	M12E	22
M12 x 1 konical	M12C	22
M12 x 1.5 Ct-Ring	M12S	22
M14 x 1.5 Shape A	M14A	22
M14 x 1.5 Shape E	M14E	22
M14 x 1.5 ISO	M14O	22
M16 x 1.5 Shape A	M16A	22
M16 x 1.5 female	M16F	22
M18 x 1.5 male	M18M	22
M20 x 1.5 Manom	M20B	22
R 1/4 male	R14M	22
Others	DDDD	EE

MVC/A	MVA
MVC/C	MVC
Hirschmann Mini	HIM
LEMO EWB 1S	LMS
IS9 Industrial Socket	IS9
Packard	PA1
Male Socket M5/ S707	M05
Male Socket M12 / S763	M12
Male Socket M16 / S723	M16
Male Socket M18 / S714	M18
Junior Timer	JT1
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*	FL1
Cable Gland Plastic 1.0*	CP1
Cable Steel 1.0*	KS1
Cable Plastic 1.0*	KP1
Others	FFF

Restrictor 0.6 mm	R06
Restrictors others	RXX
Total Error 0.5%	F50
Total Error 0.25%	F25
Total Error other	FXX
Cleaned for Oxygen Use	O2C
Schrader Opener 2.9	S29
Others (see below).	GGG

1 Central Park, Lenton Lane, Nottingham, NG7 2NR
t: 0115 9003 550 e: sales@hydrotechnik.co.uk
www.hydrotechnik.co.uk