

Temposonics® R-Series V RH5 SSI

ORDER CODE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
R	H	5													1	S											
a			b	c	d					e		f			g	h	i	j	k	l	m	n	o				

a	Sensor model
R H 5	Rod

b	Design
B	Base unit (only for replacement)
J	Threaded flange M22×1.5-6g (rod Ø 12.7 mm), stroke length: 25...5900 mm (1...232 in.)
M	Threaded flange M18×1.5-6g (standard)
S	Threaded flange ¾"-16 UNF-3A (standard)
T	Threaded flange ¾"-16 UNF-3A (with raised-face)

c	Mechanical options
A	Standard
B	Bushing on rod end (only for design »M«, »S« & »T«)
M	Thread M4 at rod end (only for design »M«, »S« & »T«)
V	Fluorelastomer seals for the sensor electronics housing

d	Stroke length
X X X X M	0025...7620 mm
Standard stroke length (mm)	Ordering steps
25... 500 mm	5 mm
500... 750 mm	10 mm
750...1000 mm	25 mm
1000...2500 mm	50 mm
2500...5000 mm	100 mm
5000...7620 mm	250 mm

X X X X U	001.0...300.0 in.
Standard stroke length (in.)	Ordering steps
1... 20 in.	0.2 in.
20... 30 in.	0.4 in.
30... 40 in.	1.0 in.
40...100 in.	2.0 in.
100...200 in.	4.0 in.
200...300 in.	10.0 in.

Non-standard stroke lengths are available; must be encoded in 5 mm/0.1 in. increments.

e	Number of magnets
X X	01...02 position(s) (1...2 magnet(s))

f	Connection type
D 7 0	M16 male connector (7 pin)
N 0 9	In line Male D70 on 1.6ft PUR Cable
H X X	XX m PUR cable (part no. 530 052) H01...H30 (1...30 m/3...99 ft.) See "Frequently ordered accessories" for cable specifications
P X X	XX m PUR cable (part no. 530 175) P01...P30 (1...30 m/3...99 ft.) See "Frequently ordered accessories" for cable specifications
R X X	XX m PVC cable (part no. 530 032) R01...R30 (1...30 m/3...99 ft.) See "Frequently ordered accessories" for cable specifications
T X X	XX m Teflon® cable (part no. 530 112) T01...T30 (1...30 m/3...99 ft.) See "Frequently ordered accessories" for cable specifications

Encode in meters if using metric stroke length.
Encode in feet if using US customary stroke length.

g	System
1	Standard

h	Output
S	SSI

i	Function
1	Position
2	Differential measurement (2 magnets and 1 output)
3	Velocity
4	Position and temperature in the sensor electronics housing; NOTICE In this case, only option 2 "24 bit" can be selected under 1 "Data length".

j	Options
0	Standard
1	Internal linearization

k	Mode
1	Measuring direction forward, asynchronous mode
2	Measuring direction forward, synchronous mode 1
3	Measuring direction forward, synchronous mode 2
4	Measuring direction forward, synchronous mode 3
5	Measuring direction reverse, asynchronous mode
6	Measuring direction reverse, synchronous mode 1
7	Measuring direction reverse, synchronous mode 2
8	Measuring direction reverse, synchronous mode 3

l	Data length
1	25 bit
2	24 bit
3	26 bit
A	24 bit + alarm bit + parity bit

m	Format
B	Binary
G	Gray

n	Resolution
1	5 µm
2	10 µm
3	50 µm
4	100 µm
5	20 µm
6	2 µm
7	0.1 µm
8	1 µm
9	0.5 µm

o	Additional options (optional)
S 0 0 2	FIR filter (2 measurements)
S 0 0 4	FIR filter (4 measurements)
S 0 0 8	FIR filter (8 measurements)
S 0 0 A	No filter, error counter (4 cycles)
S 0 0 C	No filter, error counter (8 cycles)
S 0 0 D	No filter, error counter (10 cycles)
S 0 0 G	FIR filter (8 measurements), error counter (10 cycles)
S 0 0 J	IIR filter (filter grade 4)
S 0 0 K	IIR filter (filter grade 8)
S 0 0 N	IIR filter (filter grade 4), error counter (10 cycles)

NOTICE

- Specify the number of magnets for your application and order the magnets separately.
- The number of magnets is limited by the stroke length. The minimum allowed distance between magnets (i.e. front face of one to the front face of the next one) is 75 mm (3 in.).
- Use magnets of the same type for differential measurement, e.g. 2 × U-magnet (part no. 251 416-2).
- If the option for internal linearization in **i** "Options" is chosen, select a suitable magnet.

DELIVERY



RH5-B:

- Base unit (without flange/rod assembly)
- 3 socket screws M4

RH5-J/-M/-S/-T:

- Sensor
- O-ring

Accessories have to be ordered separately.

Manuals, Software & 3D Models available at:
www.mtssensors.com