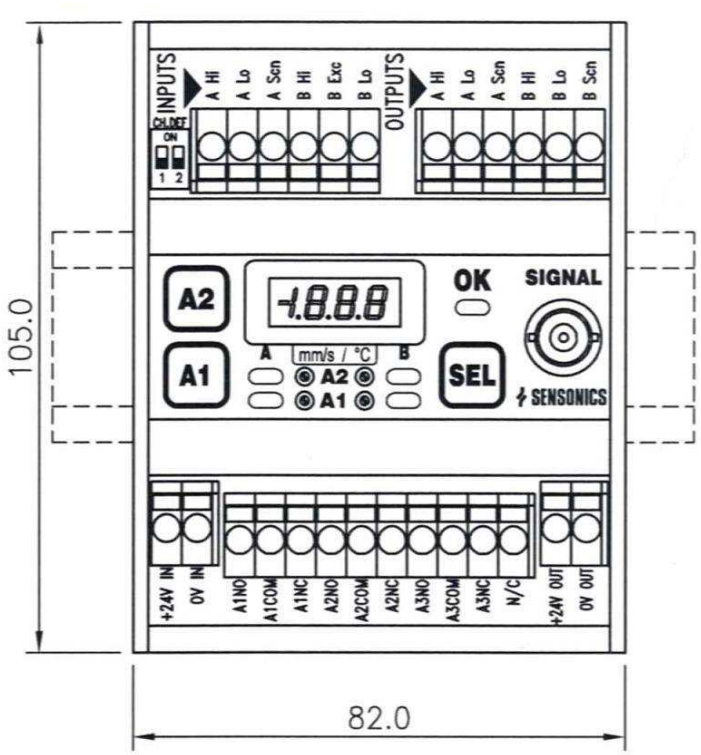
TECHNICAL INFORMATION

PREDICTIVE MAINTENANCE SYSTEMS

SENSONICS LTD

DN2604 Vibration & Temperature Monitor

This low cost high performance signal conditioning unit is ideally suited to providing protection of many types of rotating machinery from breakdown, including turbines, motors, pumps, fans, etc.
Its small size and din rail mounting format allow it to be mounted in equipment panels with other equipment or locally to the monitored machine in a junction box. Unit will fit both 35mm and G type DIN rails. The DN2604's alarms can be used to automatically trip plant and it's analogue outputs are suitable to input to DCS or other control/monitoring



Input: 1 x 2 wire accelerometer, 100mV/g sensitivity as standard.
1 x 3 wire RTD type PT100 temperature sensor.

Power: 24V dc (22 – 28V dc).

Mode: Vibration monitoring can be switched between acceleration or velocity.

Display: 3 digit LCD display switchable between channels and alarm setpoints. Display is in engineering units. (g, mm/s, Inch/s, ºC or ºF (factory set))

Outputs: 2 x 4-20 mA outputs proportional to vibration and temperature level.

Signal: Buffered raw transducer signal available on BNC connector for analysis purposes.

Alarms: 2 x individually adjustable level alarms, (2 per channel).
1 x common system integrity alarm.

Scaling: Vibration and temperature levels are selectable on site, from a standard list, by the positioning of onboard switches.

Filters: High and low pass filters are selectable on site, from a standard list, by the positioning of onboard switches.

DN2604 Dual Channel Vibration & Temperature Monitor Ordering Information

ORDERING INFORMATION

	A	B	CA	CB	D	E	F	G	H	I
DN2604	-		-		-	-		-	-	-	

A

Input

1	Accelerometer, 2 wire, 100mV/g.
2	Velocity transducer, 2 wire – (please provide details).
3	Velocity transducer, 3 or 4 wire – (please provide details).

B

1	Resistance Detector RTD PT100
2	Temperature Sensor 10mV/ ºC
3	Temperature Sensor 10mV/ ºF

C

Output Signal.

0	None
1	1x 4-20mA, Current O/P per channel
2	1x 0-1V Voltage O/P per channel
3	1x 0-5V Voltage O/P per channel

D

Metric or Imperial units displayed

1	Metric
2	Imperial

Note: Code items E, F, G & H can be set on site by selecting internal DIL switches

E

Measurement range for output

		F	ºC	ºF
A	0-10g acceleration	A	0-50	0-100
B	0-25g acceleration	B	0-100	0-200
C	0-10 mm/s velocity	C	0-150	0-300
D	0-12.5 mm/s velocity, (0-0.5 inch/s)	D	0-200	0-400
E	0-15 mm/s velocity			
F	0-20 mm/s velocity			
G	0-25 mm/s velocity, (0-1 inch/s) (Standard)			
H	0-50 mm/s velocity, (0-2 inch/s)			

G

Note: For Vibration channel only

Lo pass filter, high end cut off

1	1 kHz (Standard)
2	2 kHz
3	10 kHz

H

Note: For Vibration channel only

Hi pass filter, low end cut off

1	2.5 Hz (Standard)
2	5 Hz
3	10 HZ

I

alarm delay

1	1s (Standard)
	3, 5 or 10 seconds

Example of Order Code

DN2604-21-32-1-EA-2-3-1 **is CHA 2-wire velocity transducer, 1-5V OP, 0-15mm/s, 2kHz LPF, 10Hz HPF; CHB 3-wire RTD PT-100, 0-1V OP, 0-50ºC, metric display, 1 second alarm delay.**

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