

ALARM INTERVALS

Tab1.

ISO 20816-3		Medium Machines Group 2		Large Machines Group 1	
Velocity		Rated Power			
in/sec eq. Peak	mm/sec RMS	15 kW - 300kW		300 kW and Up	
0,61	11,0	DAMAGE OCCURS			
0,39	7,1				
0,25	4,5	RESTRICTED OPERATION			
0,19	3,5				
0,16	2,8	UNRESTRICTED OPERATION			
0,13	2,3				
0,08	1,4	NEWLY COMMISSIONED MACHINERY			
0,04	0,7				
0,00	0,0				
Foundation		Rigid	Flexible	Rigid	Flexible

A  B  C  D 

Tab2.

IEC 60034-1	
TYPICAL ENGINE CASING TEMPERATURE	MEDIUM MACHINES
80°C – 180°C	DAMAGE OCCURS
70°C – 80°C	RESTRICTED OPERATION
0°C – 70°C	UNRESTRICTED OPERATION

A  B  C 

- ✓ Shown above is a table regarding the alarm thresholds defined by the ISO 20816-3 standard and the IEC 60034-1 standard.
- ✓ Different thresholds can be easily programmed for each channel (vibration, process)

PREDICTIVE AND PROCESS MONITORING SYSTEM 6SV_2PT100_CMPT_RUT_INSMB4V-MV26 (INTELLINOVA MB – VIB + ROUTER + PLC)



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MODEL:

6SV-2PT100_CMPT_RUT_INSMB4V-MV26

Components

1. Polyester box (IP-65)
2. PLC-HMI (10")
3. Wi-Fi antenna
4. 4G antenna
5. Industrial Communications Router (4G, Wi-Fi, Cloud, etc.)
6. Terminal block
7. Device INSMB4V
8. Alarm Buzzer
9. Fuse holder
10. Silence Alarm Button
11. Connettore BNC
12. RTD Temperature Sensors (2)
13. Process Sensors (8) (Vibration, Pressure, Temperature, Lubrication, etc.)

* Also available:

- 2 Analog outputs (0-20mA)
- 24 digital inputs
- 20 digital outputs
- Communication Protocol:
 - Modbus RTU / TCP
- Physical ports: RS485, Ethernet

*Optional:

- Power supply: 90 - 264VAC / 47 - 63HZ



Considerations

- L+ = 24 VDC
- 12 Analog Inputs Provided:
 - ✓ AD0, AD1 → (PT100)
 - ✓ AD2, AD3, AD4, AD5, AD6, AD7.
 - ✓ CH1, CH2, CH3, CH4.
- 4 thresholds are defined for each vibration signal (Tab.1) or process signal.
- 3 thresholds are defined for each temperature signal (Tab.2)
- The measured values and related alarm thresholds are displayed on the screen.
- Lubrication (HDm/HDc, LR/HR) and vibration (ACC, VEL, DISP rms, HD ENV) diagnostics.
- Integrated spectral processing (400 to 12800 lines) for FFT calculation.
- Internal calculation of symptomatic values such as BPFO: reduces processing load.
- Dedicated transducer: **SPM DuoTech** series, specialized sensor for shock and vibration impulses.
- Automatic alerts: Email / SMS notifications for WARNING(C) or DANGER (D).
- Cloud integration.