

Process Input Monitor Specifications

The Process Input Monitor is designed for high reliability for the plant's most critical rotating machinery monitoring process inputs such as temperature, pressure, load, etc. This 1-slot monitor is used together with other CSI 6500 monitors to build a complete API 670 machinery protection monitor. Applications include steam, gas, compressors and hydro turbo machinery.

The main functionality of the Process Input Monitor is to accurately monitor process parameters and reliably protect machinery by comparing parameters against alarm setpoints, driving alarms and relays.

Process inputs can be ± 1 V; ± 10 V or 0/4-20 mA.

The CSI 6500 Machinery Health Monitor is an integral part of PlantWeb® and AMS Suite. PlantWeb provides operations-integrated machinery health combined with the Ovation® and DeltaV™ process control system. AMS Suite provides maintenance personnel advanced predictive and performance diagnostic tools to confidently and accurately determine machine malfunctions early.



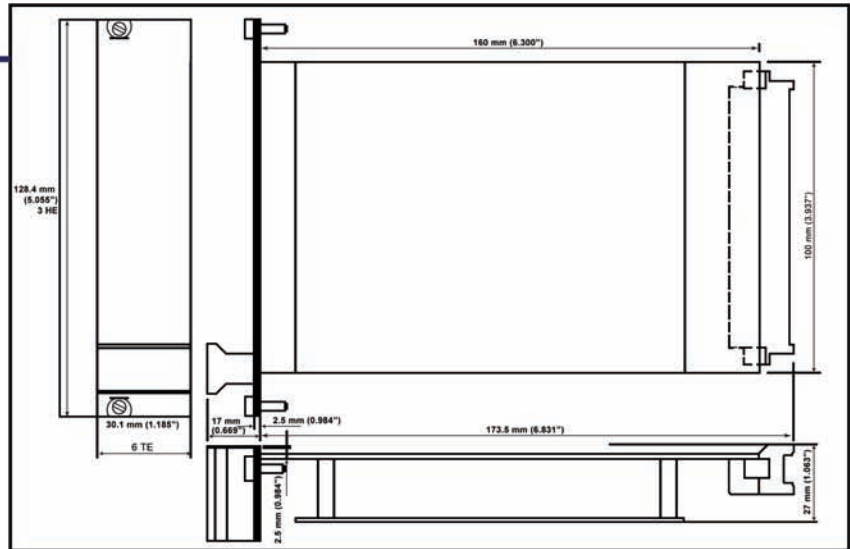
- Four-channel, 3U size, 1-slot plug in module decreases cabinet space requirements in half from traditional four-channel 6U size cards
- API 670 compliant, hot swappable module
- Remote selectable limit multiply and trip bypass
- Front and rear buffered and proportional outputs, 0/4-20 mA output, 0-10 V output
- Self-checking facilities include monitoring hardware, power input, hardware temperature, sensor and cable
- For use in the IMR600020 chassis

Transducer Inputs	
Number of inputs	Four, independent
Type of inputs	Voltage or current ±1 V or ±10 V 0/4-20 mA
Analog outputs	4 current outputs, 0/4-20 mA Galvanically separated, 500 Ω
Accuracy	Temperature error: < 0.25% per 10k Linearity error at 20° C < 1%
Alarm outputs	Channel OK, alert and danger for each input
Front Panel Outputs	
Green LED's	Four LED's, indicates channel OK separately for each channel
Red LED's	Eight LED's, indicates alert and danger separately for each channel
Mini DIN configuration socket	Module interface connection for configuration and parameter and status monitoring RS-232
Handle	Easily remove card and provide plate for module and sensor identification
Configurable parameters	Measuring range Engineering units Alert and Danger Available via ModBus TCP/IP output
Alarm Setpoints Alarm Time Delays	
Alert	Selectable normally open, normally closed 0-5 second delay per channel 0-36 second delay with A6740 relay card Selectable to be blocked on channel not OK Adjustable range 5-100% of full scale value Resolution 1% of full scale value Alarm hysteresis on decreasing signal value, 0 to 20% of full scale value
Danger	Selectable normally open, normally closed 0-5 second delay per channel 0-36 second delay with A6740 relay card Selectable to be blocked on channel not OK Adjustable range 5-100% of full scale value Resolution 1% of full scale value Alarm hysteresis on decreasing signal value, 0-20% of full scale value
OK	Self checking (normally closed): <ul style="list-style-type: none"> ■ power supply, sensor, cable, module checking, overload, internal temperature, system watchdog Green LED: <ul style="list-style-type: none"> ■ off when not OK ■ during delay time, LED flashes ■ reason for not OK can be read from communication bus
Limit multiply	Remote, relay input, 1.00-4.99 factor
Trip bypass	Remote, relay input

Environmental, General	
Module	IP 00, DIN 40050
Front plate	IP 21, DIN 40050
Climate	DIN 40040 class KTF
Operating temperature	0°-65° C (32°-149° F)
Storage temperature	-30°-85° C (-22°-185° F)
Relative humidity	5-95%, non condensing
Vibration	IEC 68-2, part 6 0.15 mm, 10-55 Hz 19.6 mm/s ² , 55-150 Hz
Shock	IEC 68-2, part 29 98 m/s ² peak, 16 ms
EMC resistance	EN50081-1 / EN50082-2
Power consumption	Max. 5 W
Configuration	Password protected

Dimensions:

PCB/EURO card format according to
DIN 41494, 100 x 160 mm (3.937 x 6.300 in)
Width: 30.0mm (1.181 in) (6 TE)
Height: 128.4 mm (5.055 in) (3 HE)
Length: 160.0 mm (6.300 in)
Net weight: app 320 g (0.705 lbs)
Gross weight: app 450 g (0.992 lbs)
includes standard packing
Packing volume: app 2.5 dm³ (0.08 ft³)
Space requirements: 1 slot
14 modules fit into each 19" rack



Ordering Information

Model Number	Product Description
A6620	Four-channel Process Input Monitor (for use in the IMR 6000/20 chassis)

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Online Machinery Health Management powers PlantWeb through condition monitoring of mechanical equipment to improve availability and performance.