

MXP2 188

Medium Site Management System

- Compact footprint
- Flexible configuration
- Cross-functional workflow



Boost network reliability, cut operating costs

With the MXP2 188 from Multitel, telecom site managers can drive down engineering, maintenance, and surveillance costs, plus automate workflow for better productivity. This all-in-one system meets across-the-board requirements for site monitoring and control: site access and security, environmental parameters, HVAC, AC utility, and DC distribution and power backup. Integration eliminates the need for redundant site monitoring and control equipment. And the system's compact footprint saves valuable revenue-generating space, while providing high-density configurable inputs, outputs, and alarms.

Multitel offers long-term value to you and your end-users. Founded in 1980, Multitel is a leading provider of site management solutions for the telecommunications industry. Our customers count on us for robust equipment that optimizes telecom operations, unsurpassed customer care including 98% on-time delivery, and an expertise-rich knowledge base powered by dedicated specialists.

4 ways to spend smarter

All-in-one integration

One system does it all with a smaller capital outlay. No need for extra monitoring equipment, multiple accessories, thermostats, modems, and communication links.

Proactive site management

Real-time data provides valuable information for effective management action.

State-of-the-art network reliability

Prevent backup systems failure through extensive monitoring. Profit from sophisticated data logging capabilities for less expensive just-in-time equipment replacement.

Cut expensive site visits

Surveillance and maintenance teams may diagnose problems right from the NOC. Reduce emergency calls and optimize routine maintenance.



Web Gate

This value-added communication module provides universal remote web access to alarm information. Web Gate supports all features, including configuration and upgrades. You save time and money through point-and-click functionality while cutting back on expensive site visits. Thanks to Ethernet connectivity, alarms go right where you need them - the CO, NOC, your desktop, and even home.

The right fit for your application

The MXP2 188 Medium Site management System is compact, reliable, and powerful. Major remote monitoring and control applications include:

- Environmental conditions
- Site access and security
- DC power plant
- AC supply sources

The MXP2 188 provides 34 analog inputs: 12 real channels and 22 derived channels, or 15 real channels and 19 derived channels, depending on the model, and from 16 to 48 binary input channels. What's more, it can report status and alarms locally through 12 relay outputs and the unit's unique alphanumeric front display or remotely through 20 call-outs compatible with pagers, terminals, printers, and more. Engage the system's software functions for flexible remote configuration of analog inputs, selecting input ranges, and much more. Choose the voltage options, temperature ranges, and current inputs that work for your application.

A select list of channel choices:

Environment	Access & safety	DC power plant	AC supply
Ambient temperature	Door open	Load current	Generator
Humidity	Tower lights	Battery current	Rectifier
HVAC	Movement	Battery temperature	AC voltage
Pressure	Smoke and gas	Battery midpoint voltage	AC current

Streamlined workflow: maintenance, surveillance, engineering and provisioning

With the MXP2 188, the savings don't stop at one department. Here's how several telecom workgroups can save money and increase efficiency:

Maintenance

Increase maintenance efficiency

Diagnose problems accurately, fix them proactively

Maintain network availability

Just-in-time parts testing and replacement through continuous monitoring

Cut travel expenses

Monitor remotely, diagnose problems before high-cost travel to remote sites

Surveillance

Keep an eye on your assets

Go-anywhere alarms: your desktop, pager, cell phone, and even home

Boost network reliability

Diagnose faults accurately, then fix them before downtime and revenue loss

Optimize crew intervention

Deploy troubleshooters only when absolutely necessary

Engineering & provisioning

Better visibility for system planning

Complete data logging and statistics for accurate purchase forecasting

Compact monitoring layout

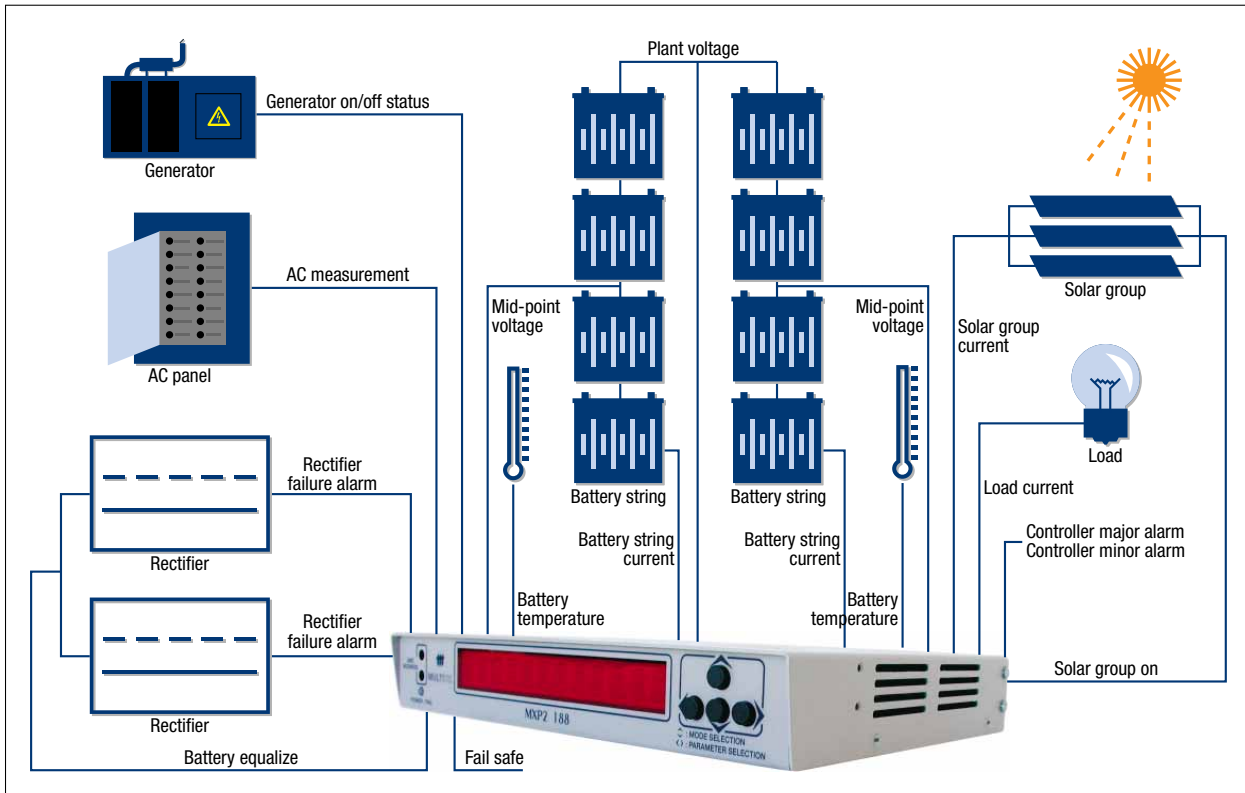
All-in-one integration cuts back on redundant monitoring equipment, accessories, and communication lines

Improve collocation management

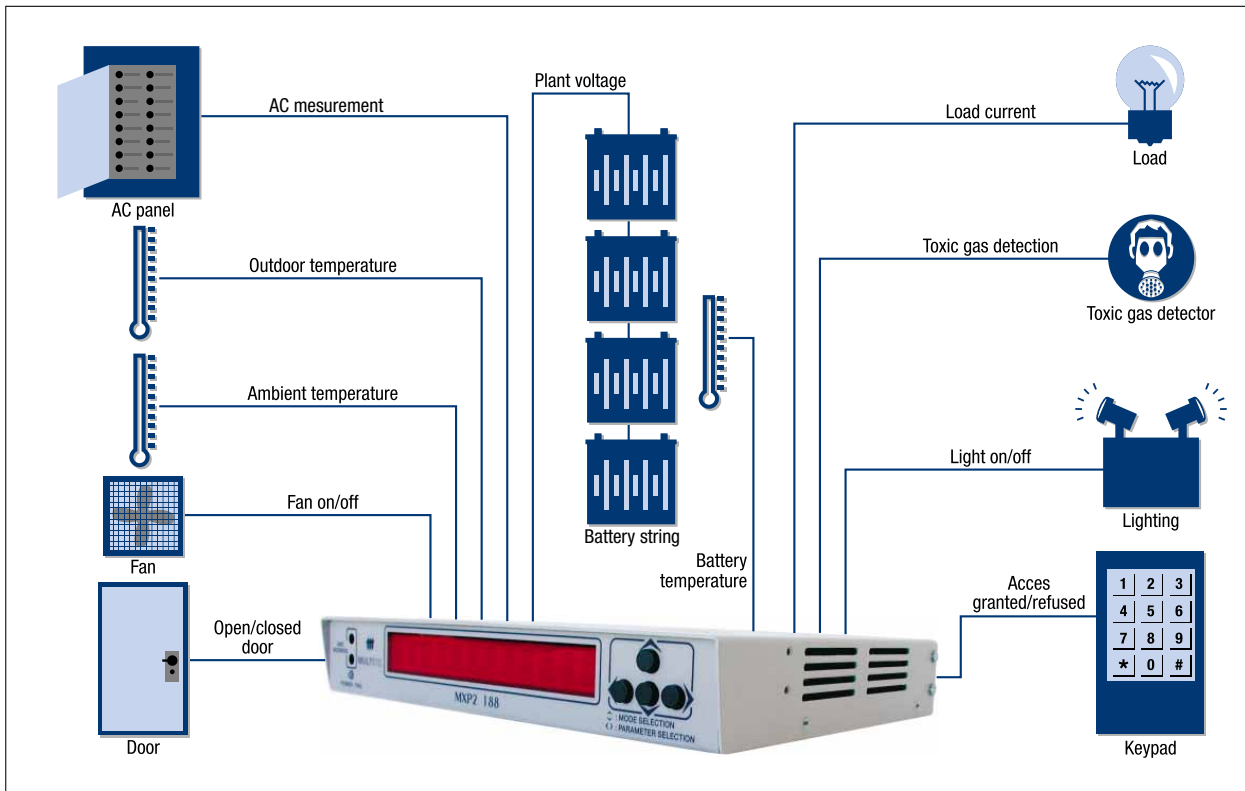
Analyze equipment performance and optimize site to customer requirements

Sample applications

DC power monitoring



Site management



Specifications

Main unit	M-1084		M-1083	
	-24-G	-48-G	-24-G	-48-G
Input voltage range (Vdc)	20-30	42-60	20-30	42-60
Consumption (mA)	800	400	800	400
Clock resolution (s)	1			
Clock uncertainty (min/month)	± 1			
Analog input channels				
Real channels	0 to 12		12 to 15	
Virtual channels	22		19	
Sampling rate per real channel (Hz)	4200			
Peak values sampling rate ¹ (Hz)	175			
Refresh rate of virtual channels (s)	0.5		0.5	
Resolution (bits)	12			
Binary input channels				
Number of channels	16 to 48		16 to 24	
Maximum input protection (Vdc)	± 200			
Scan rate (Hz)	4			
Relay output channels				
Number	12+1 (fail)			
Refresh rate, typical (s)	1			
Maximum contact rating ² (A)	1			
RS-232 serial port				
Baud rate	300, 1200, 2400, 4800, 9600, 19200			
RS-485 serial port				
Baud rate	300, 1200, 2400, 4800, 9600, 19200			
General specifications				
Display	1 line, 12 alphanumeric characters			
Storage temperature	-40° C to 70° C (-40° F to 158° F)			
Operating temperature	0° C to 50° C (32° F to 122° F)			
Relative humidity	5% to 90% non-condensing			
Dimensions				
Depth	22.3 cm (8.75 in)			
Width	27.9 cm (11 in)			
Height	4.5 cm (1.75 in)			
Weight	2.8 Kg (6.2 lb)			

¹ If the peak value is selected for other channels, the returned default value will be zero.

² At 30 Vdc

Multitel reserves the right to change characteristics without notice.

Ordering information

Main unit

M-10XX-XX-G

Module slots

84 = 4 slots

83 = 1 slot

Input

24 = 24 Volts

48 = 48 Volts

Analog input channels modules

M-3611H = 3 x 50mV

M-3612H = 3 x 2V

M-3613H = 3 x 20V

M-3614H = 3 x 200V

M-3615H = 3 x 5V

M-3616H = 200V/40V/200V

M-3617H = 200V/50mV/50mV

M-3618H = 200V/50mV/40V

M-3619H = 3 x 60V

M-3631H = 3 x temperature

M-3641H = 3 x 4-20mA

M-3651H = 3 x OSI

M-3661H = 3 x SDTA

M-3662H = 3 x 5VAC non-isolated for ACCI-01

M-3671H = 200V/50mV/TEMP

M-3672H = 5V/50mV/TEMP

M-3674H = 200V/40V/TEMP

M-3675H = 3 x CT

Binary input channels module

M-3691H = 8 events

Optional communication devices

M-3521 = 2400 Bps internal modem

M-3546 = Web Gate

Standard accessories

Mounting bracket

Instruction manual

Optional Accessories

K-EAR223/2A-G = MXP2 23 in. flush-mounting bracket + 2 Acc.

K-EARWALL#2 = MXP2 wall-mounting bracket

M-4110 = Ferrite bead connector extender



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for Class A (EMI)

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Multitel has been delivering site management solutions to telecommunications service providers for over 20 years. Our products enable engineers and technicians to proactively maintain remote site quality, prevent downtime and revenue loss, as well as increase long-term customer satisfaction and loyalty.