

IT40SW / IT50SW / IT60SW Series Wireless LAN Tower Light

- Energy saving, maintenance free LED lights
- Remote monitoring and data logging via WLAN network by bridging signals to/from Ethernet Modbus/TCP I/Os
- WLAN access point and infrastructure mode
- Bright and even illumination thanks to M-System's original reflection system
- Rugged IP 65 construction is ideal for harsh industrial applications

IEEE 802.11b/g/n 2.4 GHz

R&TTE



This device is approved for use in all EU member countries.

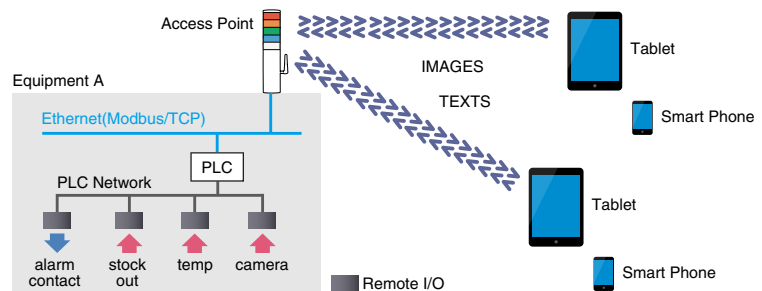
M-System IT40SW, IT50SW and IT60SW Series are preassembled tower lights of 40-mm, 50-mm and 60-mm diameter LED modules with wireless LAN connectivity. The WLAN access point built in the IP 65 protected tower light is a simple and practical solution for status remote monitoring, data logging and supervisory control of manufacturing equipment and process in harsh industrial environment.

The WLAN capability complying with IEEE 802.11b/g/n allows a wide compatibility with M-System's and other manufacturers' remote I/O modules and web-enabled data loggers, thus realizing versatile applications such as data acquisition and control of multiple machines by single master PLC located in one without needing hardwiring between each of them, or event notification to tablet devices with texts and images from manufacturing equipment.

The LED lights are controlled either by local contact inputs or by a host PLC/PC via Modbus/TCP network.

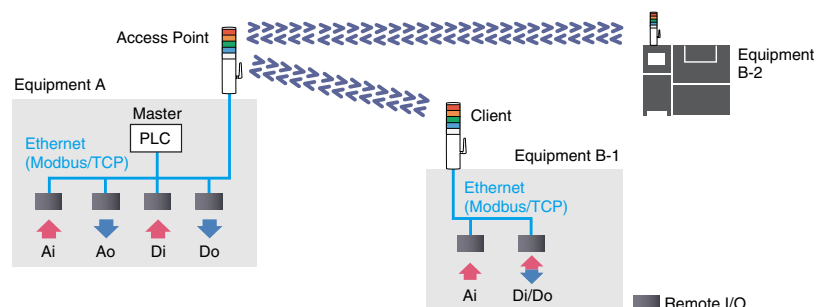
APPLICATION Remote monitoring and control of an equipment using mobile interface

When an abnormality occurs in a manufacturing equipment built with a web-enabled remote terminal, alarm status information including images and texts can be sent to tablets and smart phones via a wireless LAN tower light. (Customer's application software needed to communicate with tablets)



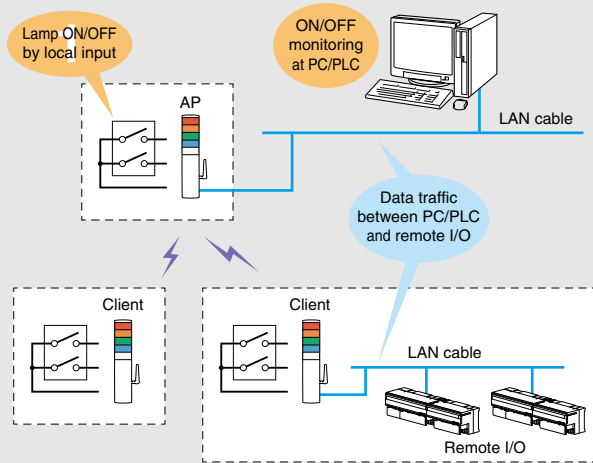
APPLICATION No hardwiring between multiple sets of equipment to monitor and control by a single master PLC

Multiple slave machines can be monitored and controlled by a single master PLC via wireless LAN network. Energy consumption, temperature and other measuring points can be monitored by the PLC together with lamp status information.

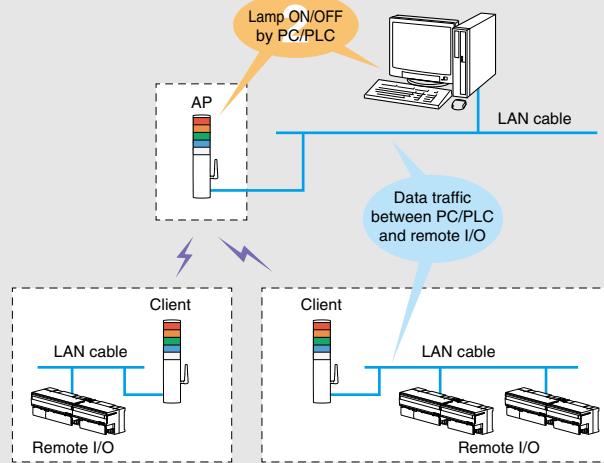


Configuration Examples

1. Lamps are controlled by local inputs.
Local contact status can be acquired by the host PC/PLC.
Data is sent/received between the PC/PLC and remote I/O.



2. Lamps are controlled by the host PC/PLC.
Data is sent/received between the PC/PLC and remote I/O.



SELECTION GUIDE

FUNCTION	MODEL NO.	DIAMETER
WLAN Access Point	IT60SW2	φ60 mm (2.36")
	IT50SW2	φ50 mm (1.97")
	IT40SW2	φ40 mm (1.57")
WLAN Client	IT60SW1	φ60 mm (2.36")
	IT50SW1	φ50 mm (1.97")
	IT40SW1	φ40 mm (1.57")

GENERAL SPECIFICATIONS

Degree of protection	IP 65, vertical mounting only (except the bottom connectors)
Connection	
Power input	UL 1007 AWG 20
Contact input	UL 1007 AWG 22
Ethernet	RJ-45 connector
Housing material	
Tower	Flame-resistant resin (white)
Lens	Flame-resistant resin (transparent)
DIP SW	Light's blinking frequency, buzzing ON/OFF frequency and volume level, output at communication failure, IP address resetting
LEDs	Max. 5 layers; free choice of colors among Red, Amber, Green, Blue, White LED, continuous or intermittent (approx. 2 Hz or 10 Hz)
Status indicators	Power, Run, Link, Link100, COL, WLAN1
Buzzing	Approx. 3.3 kHz, continuous or intermittent (approx. 2 Hz or 10 Hz)

Wireless LAN

Standard	IEEE 802.11b/g/n
Frequency band	2400 - 2483.5 MHz (ch.1 - ch.13)
Max. transmission distance (optical)	Approx. 50 meters (depends on setting)
Access mode	Infrastructure
Security	WEP 64 bit/128 bit, WPA (TKIP, AES), WPA2 (TKIP, AES)
Number of clients	5



Modbus/TCP

Standard	IEEE 802.3u
Transmission	10BASE-T, 100BASE-TX
Baud rate	10/100 Mbps (auto negotiation)
Data	RTU (binary)
IP address	192.168.0.1 (default) Selectable with PC Configurator

INSTALLATION

Power input	24 Vdc ±10% (ripple 10%p-p max.)
Operating temp	-10 to +55°C (14 to 131°F)
Operating humidity	30 to 85% RH (non-condensing)
Atmosphere	No corrosive gas
Mounting	Surface (vertical direction only)
Mounting pole	Pole with L-shape bracket or with mounting base (model: ITPL)

PERFORMANCE

Insulation resistance	100 MΩ or more with 500 Vdc
Dielectric strength	1500 Vac @ 1 minute (discrete input or power to network)
CE conformity	R&TTE Directive (1995/5/EC)

Your local representative: