# SIEMENS



**MONITORING AND CONTROL SOLUTIONS**

# Uniqueness Meets Efficiency –
# Multipurpose Automation Box

**siemens.com/MAB**

The Multipurpose Automation Box (MAB) is versatile, a ready-to-deploy Gateway and simplifies monitoring and control of electrical assets in power grids.
Its plug-and-play design supports diverse applications and streamlines grid operations, making it an eco-friendly choice that minimizes on-site efforts.



## Highlights

- Gateway and Data Aggregation: Acts as a bridge between electrical assets and control systems, allowing for asset visualization, data collection, and management

- Fully equipped, pre-wired, ready-to-install solution

- Supports diverse applications such as the Internet of Things, Remote Terminal Units and Microgrid Control, Photovoltaic Power Control, Substation Distribution Applications

## Your benefits

- Asset Visualization and Management: Offers a clear view and control over electrical assets, enhancing transparency and management
- Workload Simplification: Its pre-configured setup significantly reduces the installation time and efforts required by the workforce
- Sustainability: Contributes to environmental efforts by optimizing resource use and potentially reducing the carbon footprint of electrical grid management
- Cost-effective solution: improves efficiency and reduces maintenance
- Space saving & scalable design

| | |
|---|---|
| Dimensions in mm (H x W x D) | • S: 380 x 380 x 210<br>• M: 500 x 500 x 300<br>• L: 600 x 600 x 350 |
| Degree of protection | IP54 |
| Colour | RAL 7035, light grey |
| Cable entry | Bottom |
| Rated operational voltage Approx | 230V A.C. & 24V D.C. |
| Enclosures | CRCA Steel |
| Surface | Electrogalvanized and powder-coated |
| Enclosure Temperature | 0°C to + 50°C |
| Mechanical Impact | IK08 |
| Resistance to Corrosion | C3S as per IS12944-6 |
| Paint thickness | 120 -180 µm |
| Material thickness – door | 1.5 mm |
| Material thickness – enclosure | 1.38 mm |
| Material thickness of mounting plate | 2 mm |
| Doors can be hinged | Left or right |
| Door Opening Angle | 110° - 125° |
| EMC | Applicable |

Through its strategic fusion of component integration, the Multipurpose Automation Box not only enables a suite of diverse applications but also serves as the forefront of resource optimization. This unified approach significantly reduces the Carbon footprint, demonstrating a dedication to environmental quality and enduring sustainability.

## Applications

Internet of Things Box (IoT)
• Asset Management (Electrification X)
• Load Management (Electrification X)
Remote Terminal Units Box (RTU)
• Substation Automation Unit
• Industrial Automation Unit
Microgrid Box (PPC)
• Central Controller
• Redundant Controller
Photovoltaic Power Control Box (PPC)
• Data Controller
• Redundant Data Controller
• Data Concentrator
Other Applications
• UPS Box
• Communication Box

## This Box secures the connectivity between the field devices & the gateway with multiple options

• IEC 61850 relays via RS900
• Switchgear monitoring via Scalance XB-208
• Various sensors via modbus TCP-IP
• Inputs for digital or analogue signals
• Connectivity via modem or direct communication with CP8050 or CP8031
• Gateway for IEC 60870-5-104 or IEC 60870-5-101
• Gateway for DNP3 Serial or TCP/IP

↗ IoT Applications tutorial series

↗ Website Electrification X