

**EPE**

**Mikro<sup>®</sup>**  
PRODUCT  
CATALOGUE





# BUSWAY

## TRUNKING SYSTEM

### INTRODUCTION

Busway system is widely acceptable and installed in this modern electrical industry for reliable distribution. It has been recognized in recent years due to rapid economic growth and its demands. It has for better features compared with cable distribution, with details as follow:

- (1) Low voltage drop & impedance
- (2) Flexibility in power distribution & expansion
- (3) Easy installation & maintenance
- (4) Less space required & compact design
- (5) More rigid & stronger enclosure
- (6) Higher short circuit withstand strength
- (7) Longer life span

Mikro EPE Busway has been developed to cater the high demands of busway industry market with the following advantages / features of LV busway

- (1) Unique busway construction of compact type design with combined galvanized steel and aluminium heat sink channel
- (2) Perfect balancing joint system
- (3) Easy installation
- (4) Reliable insulation with good thermal conductivity
- (5) Easy & safer plug-in process for power distribution
- (6) Higher operating temperature & short circuit withstand strength
- (7) Production & process strictly under stringent quality control
- (8) Temperature monitoring system
- (9) On-time delivery
- (10) Prompt response after sales & services



# BUSWAY

## SPECIFICATION

### LV BUSWAY SPECIFICATION

Type of busway construction:	Compact design
Standard:	IEC61439-6 & other equivalent
System configuration:	3P3W, 3P3W+E, 3P4W, 3P4W+E 3P5W(200%N) & 3P5W+E(200%N)
Ingress of protection (IP) rating:	IP54 to IP68
Rated AC Voltage:	Up to 1kV
Rated DC Voltage:	Up to 1kV
Frequency:	50Hz / 60Hz
Current rating:	Up to 6300A
Conductor:	Copper or aluminium
Service temperature:	Up to 50°C
Short circuit capacity:	Up to 150kA
Plug in type distribution:	Up to 400A
Tap off type distribution:	Up to 1600A



### NSPB MV BUSWAY SPECIFICATION

Rated Voltage :	Up to 36kV
Rated Current :	Up to 6500A
Type :	Non Segregated Phase Busway (NSPB)
Configuration :	3P3W
Conductor :	Copper
Frequency :	50Hz / 60Hz
Service Temperature :	Up to 50°C
Short Circuit Capacity :	Up to 50KA
Withstand Voltage Capacity :	Up to 70kV
Enclosure Shape :	Rectangular
Enclosure Material :	Aluminium or steel
Protection :	Outdoor weatherproof & indoor
Cooling System :	Natural air
Max. Length per Busway :	2 meters
Standard :	IEC62271-200



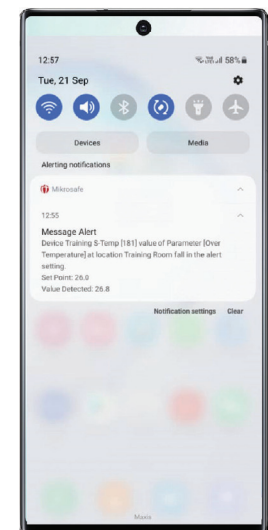
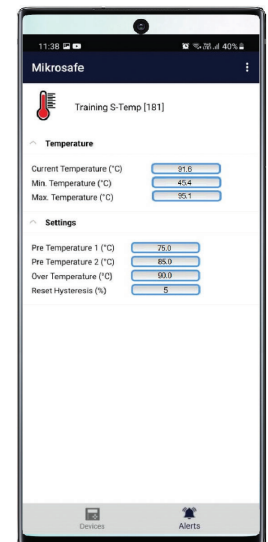
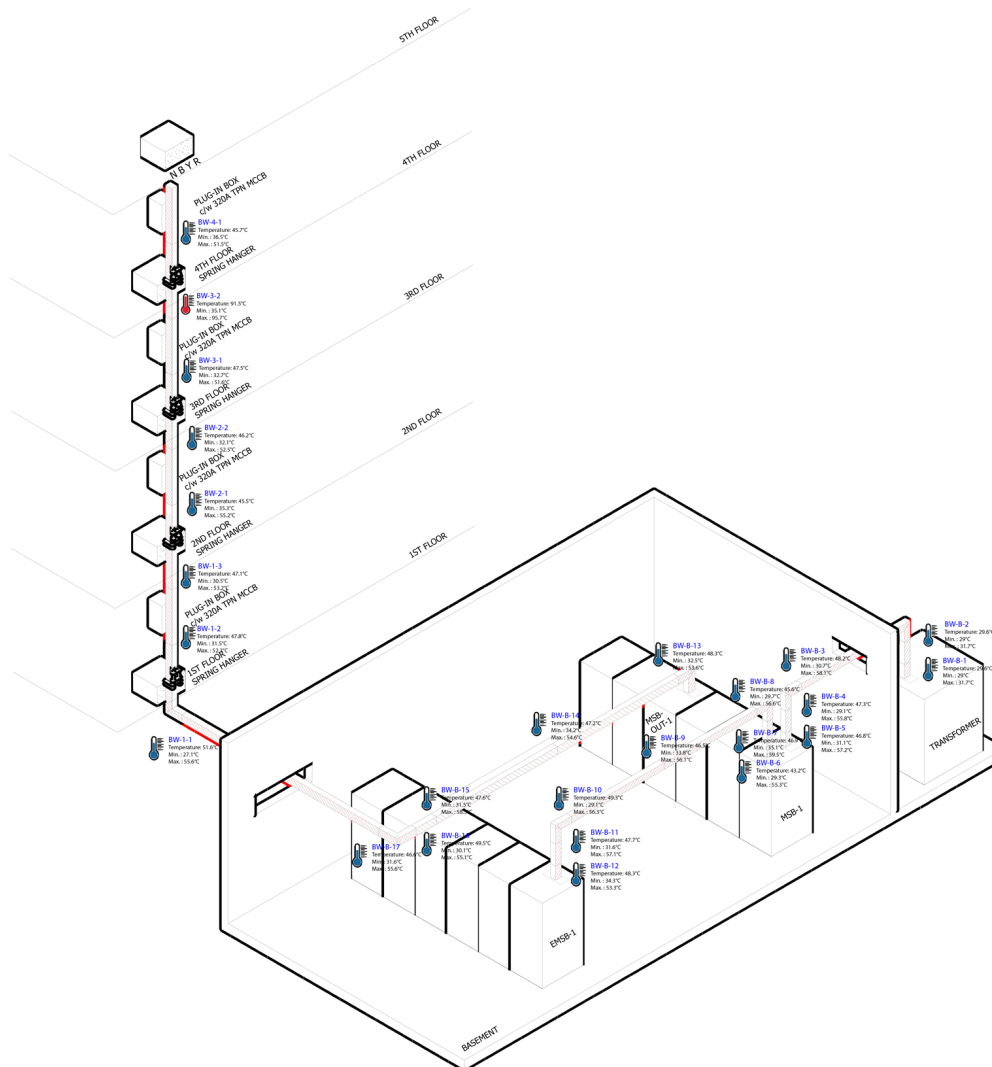
# MULTI POINT

## BUSWAY TEMPERATURE MONITORING SYSTEM

### INTRODUCTION

Mikro's multipoint busway temperature monitoring system is the latest addition to Mikro's further enhanced Mikrosafe system which comprises of temperature sensor module, power supply and fire retardant cable. This system is able to monitor the temperature at every critical joint and is able to link to protective relay such that it can trigger the protection and trip the relay when critical temperatures are detected at the busway.

Users are able to set access control, level control and alerts to prompt the maintenance crew beforehand when abnormal temperatures are detected and provide real time temperature monitoring data to facilities/building managers through their PC or mobile phone via a mobile APP (in Android or Apple system).



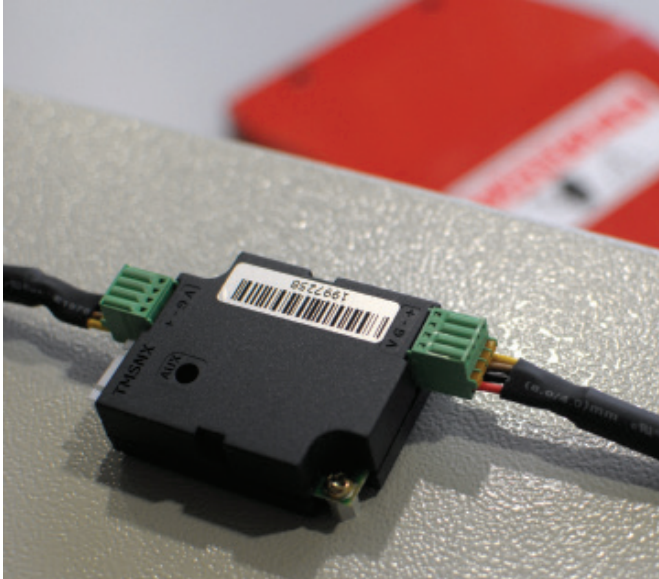
Ability to troubleshoot & identify rapidly on problem segments of busway with over temperature issues and receive push notification of alert on Mobile Application



# TMSNX

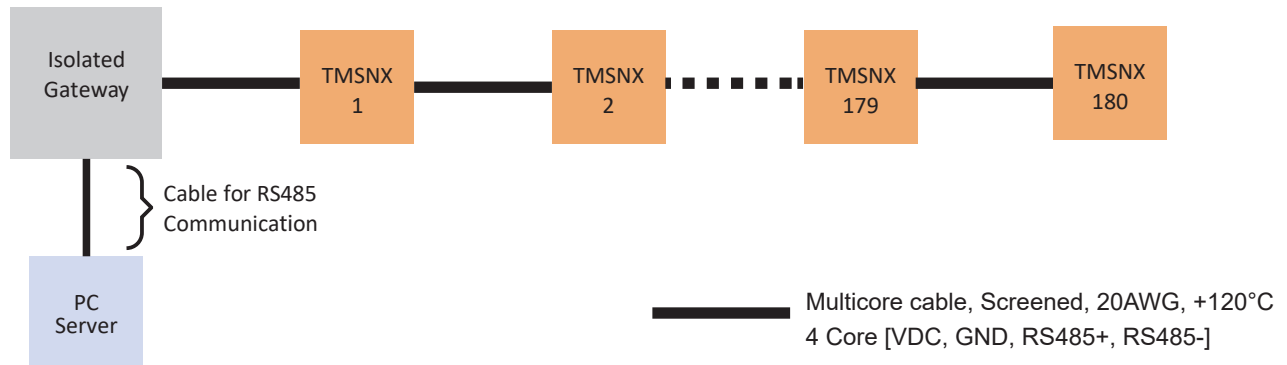
## BUSWAY TEMPERATURE MEASUREMENT SENSOR

### TECHNICAL DATA

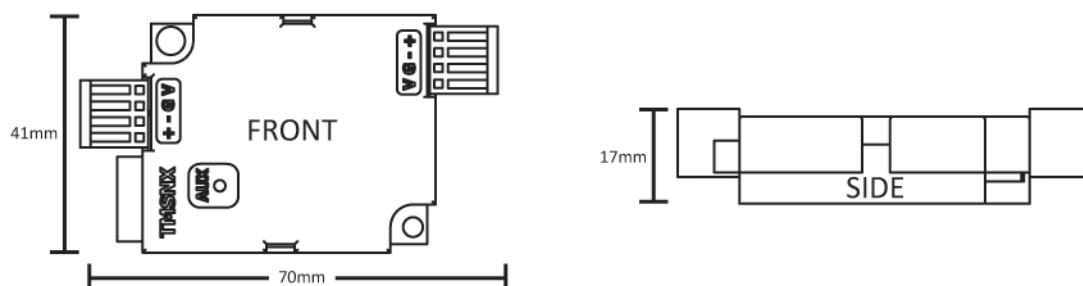


- Input voltage range : 8 VDC to 24 VDC
- Humidity : 5% to 95%
- Sensor measurement range : 0 °C to +120°C
- Measurement accuracy : +/-2°C
- Maximum cable withstand temperature: +120°C
- Power consumption : 3W Max
- Communication : Non Isolated RS485 Modbus RTU Protocol, 9600 Baudrate, Even Parity, 1 Stop bits
- Dimension without casing : 70mm(w) x 15mm(h) x 39mm(d)
- Dimension with casing : 70mm(w) x 15mm(h) x 41mm(d)
- Enclosure protection : IP20
- Compliance with IEC : IEC 61010-1 Safety Test
- Compatible with Mikrosafe Software

### CONNECTION DIAGRAM



### TMSNX DIMENSION





**Mikro Sdn Bhd** (199701007972)  
3, Jalan Anggerik Mokara 31/48, Sek 31,  
Kota Kemuning, 40460 Shah Alam,  
Selangor, Malaysia.  
Tel: +603 5525 3863  
Email: sales@itmikro.com  
[www.itmikro.com](http://www.itmikro.com)

