

## Compact Antenna Mast CAM 4.0-P

### Technical Data

Antenna height automatic adjustable from	1.0 to 4.0 m
Total mast height	4.4 m
Load capability	max. 8 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibre glass, weatherproof
Mast cross-section	60 mm x 60 mm
Base L x W	0.8 m x 0.6 m
Positioning speed adjustable between	2 to 15 cm/sec.
Positioning accuracy	+/- 1 cm
Antenna support drive	Toothed belt
Motor	Brushless DC motor 150 W
Drive unit	shielded and radio interference suppressed
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 2A
Voltage	208-230 VAC, 50/60 Hz, single phase
Polarisation	0°/90° (vert./hor.)
Positioning time	0°/90° approx. 3 sec.
Polarisation drive	Pneumatic rotary actuator
Control	Solenoid valve
Pressure	max. 6 bar
Temperature range	+10 °C...+35 °C
Total weight	50 kg
Accessories	Interface to MCU Controller 1.5 m power supply cable 15 m air hose Service manual

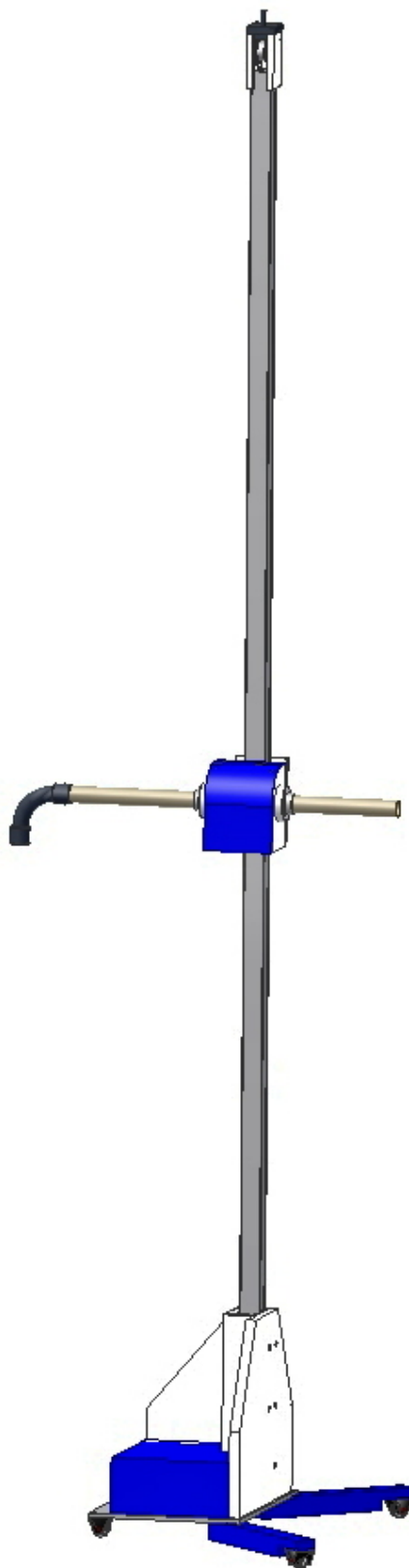
### Brief description

The Compact Antenna Mast **CAM 4.0-P** is suitable in magnetic absorption chambers. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.

## Compact Antenna Mast CAM 4.0-P



## Antenna Mast AM 4.0

### Technical Data

Antenna height automatic adjustable from	1.0 to 4.0 m
Total mast height	4.6 m
Load capability	max. 10 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass, weatherproof
Mast cross-section	0.1 m x 0.1 m
Base L x W	1.0 m x 1.0 m
Positioning speed adjustable between	2 to 15 cm/sec.
Positioning accuracy	+/- 1 cm
Polarisation	0°/90° (vert./hor.)
Positioning time 0°/90°	approx. 3 sec.
Antenna support drive	2 toothed belts
Motor	Brushless DC motor 150 W
Drive unit	shielded and radio interference suppressed
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 2A
Voltage	208-230 VAC, 50/60 Hz, single phase
Temperature range	-10 °C...+35 °C
Total weight	80 kg
Accessories	<b>Interface to MCU Controller</b> 1.5 m power supply cable Service manual

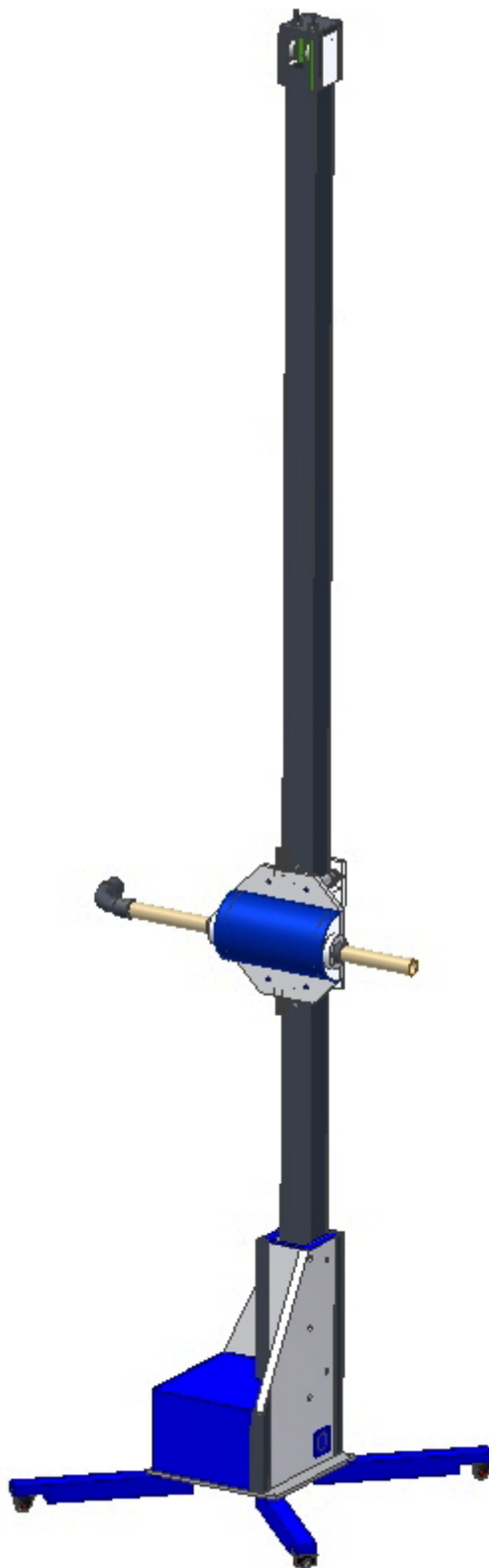
### Brief description

The Antenna Mast **AM 4.0** is suitable in magnetic absorption chambers. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.

## Antenna Mast AM 4.0



## Antenna Mast AM 6.0

### Technical Data

Antenna height automatic adjustable from	1.0 to 6.0 m
Total mast height	6.6 m
Load capability	max. 10 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass, weatherproof
Mast cross-section	0.1 m x 0.1 m
Base L x W	1.0 m x 1.0 m
Positioning speed adjustable between	2 to 15 cm/sec.
Positioning accuracy	+/- 1 cm
Polarisation	0°/90° (vert./hor.)
Positioning time 0°/90°	approx. 3 sec.
Antenna support drive	2 toothed belts
Motor	Brushless DC motor 150 W
Drive unit	shielded and radio interference suppressed
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 2A
Voltage	208-230 VAC, 50/60 Hz, single phase
Temperature range	-10 °C...+35 °C
Total weight	90 kg
Accessories	<b>Interface to MCU Controller</b> 1.5 m power supply cable Service manual

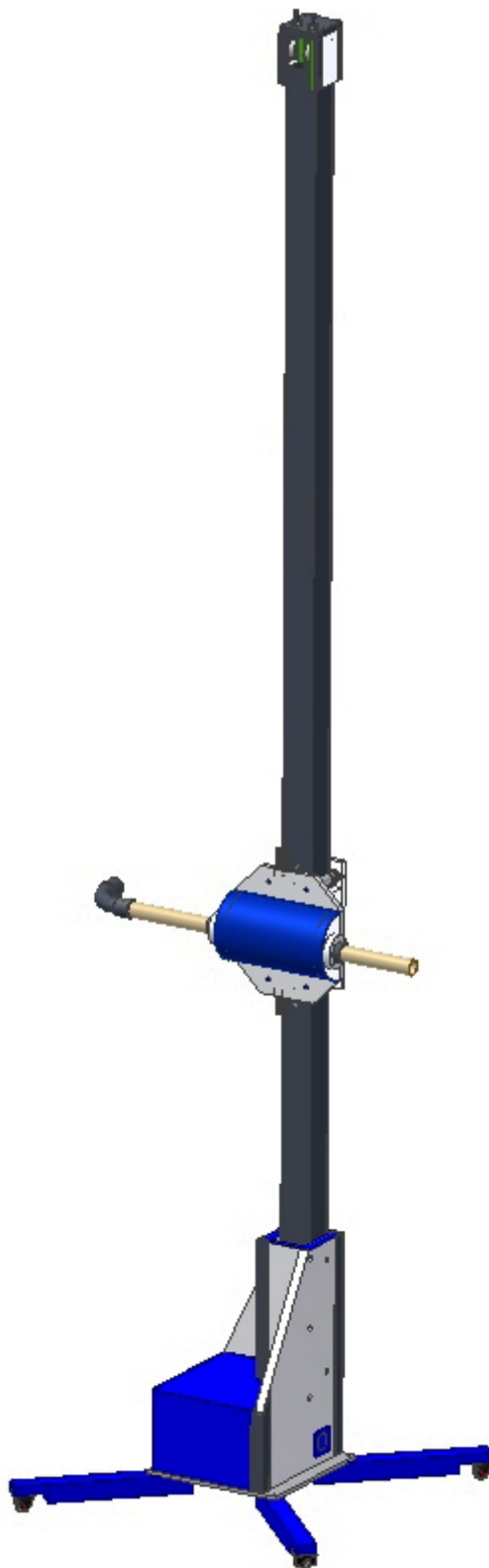
### Brief description

The Antenna Mast **AM 6.0** is suitable in magnetic absorption chambers. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.

## Antenna Mast AM 6.0



## Dual Antenna Mast DAM 4.0

### Technical Data

Antenna height automatic adjustable from	1.0 to 4.0 m
Total mast height	4.6 m
Load capability	max. 20 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass weatherproof
Mast cross-section	0.1 m x 0.1 m (2 fibreglass tubes)
Base L x W	1.0 m x 1.0 m
Positioning speed adjustable between	1 to 10 cm/sec.
Positioning accuracy	+/- 1 cm
Polarisation	0°/90° (vert./hor.)
Positioning time 0°/90°	approx. 3 sec.
Antenna support drive	3 toothed belts
Motor	Brushless DC motor 300 W
Drive unit	shielded and radio interference suppressed
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 3A
Voltage	208-230 VAC, 50/60 Hz, single phase
Temperature range	-15 °C...+35 °C
Total weight	240 kg
Accessories	<b>Interface to MCU Controller</b> 1.5 m power supply cable Service manual Counter weight

### Brief description

The Dual Antenna Mast **DAM 4.0** is suitable in magnetic absorption chambers. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.

## Dual Antenna Mast DAM 6.0-O

### Technical Data

Antenna height automatic adjustable from	1.0 to 6.0 m
Total mast height	6.6 m
Load capability	max. 20 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass weatherproof
Mast cross-section	0.1 m x 0.1 m (2 fibreglass tubes)
Base L x W	1.0 m x 1.0 m
Positioning speed adjustable between	1 to 10 cm/sec.
Positioning accuracy	+/- 1 cm
Polarisation	0°/90° (vert./hor.)
Positioning time 0°/90°	approx. 3 sec.
Antenna support drive	3 toothed belts
Motor	Brushless DC motor 300 W
Drive unit	shielded and radio interference suppressed
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 3A
Voltage	208-230 VAC, 50/60 Hz, single phase
Temperature range	-15 °C...+35 °C
Total weight	280 kg
Accessories	<b>Interface to MCU Controller</b> 1.5 m power supply cable Service manual Counter weight

### Brief description

The Dual Antenna Mast **DAM 6.0-O** is designed for use in open area test sites. Included guy wires, anchoring pins and protection cover ensure an operation for wind speeds up to 60 km/h. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.



## **Dual Antenna Mast DAM 6.0-O**



## Dual Antenna Mast DAM 4.0-T

### Technical Data

Antenna height automatic adjustable from	1.0 to 4.0 m
Total mast height	4.6 m
Load capability	max. 20 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass weatherproof
Mast cross-section	0.1 m x 0.1 m (2 fibreglass tubes)
Base L x W	1.0 m x 1.0 m
Positioning speed adjustable between	1 to 10 cm/sec.
Positioning accuracy	+/- 1 cm
Polarisation	0°/90° (vert./hor.)
Positioning time 0°/90°	approx. 3 sec.
Tilt angle	+/- 45°
Tilt speed	7.5 °/sec.
Tilt accuracy	± 2°
Antenna support drive	4 toothed belts
Motor	Brushless DC motor 300 W
Drive unit	shielded and radio interference suppressed
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 3A
Voltage	208-230 VAC, 50/60 Hz, single phase
Temperature range	-15 °C...+35 °C
Total weight	280 kg
Accessories	<b>Interface to MCU Controller</b> 1.5 m power supply cable Service manual Counter weight

### Brief description

The Dual Antenna Mast **DAM 4.0-T** is suitable in magnetic absorption chambers. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). The DAM 4.0-T has additionally an electrical tilt function of +/- 45°. Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.

## **Manual Antenna Stand MAS 2.0**

### **Technical Data**

Antenna height adjustable manually	0.7 m to 2.0 m
Total mast height	2.2 m
Load capability	max. 6 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass, weatherproof
Mast cross-section	0.06 m x 0.06 m
Base L x W	0.9 m x 0.6 m
Moveable with 4 casters	
Polarisation manually	0°/90° (vert./hor.)
Temperature range	-10 °C...+35 °C



### **Brief description**

The MAS 2.0 manual antenna stand is specifically designed for measurements in electromagnetic absorption chambers at a fixed measuring height.

The MAS 2.0 manual antenna stand has no metal parts (except for the wheels)

Polarisation change is performed manually. The antenna bar height is manually adjustable.

## Manual Antenna Stand MAS 4.0-C

### Technical Data

Antenna height adjustable manually	1.0 m to 4.0 m
Total mast height	4.2 m
Load capability	max. 6 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass, weatherproof
Mast cross-section	0.06 m x 0.06 m
Base L x W	0.9 m x 0.6 m
Moveable with 4 casters	
Polarisation manually	0°/90° (vert./hor.)
Temperature range	-10 °C...+35 °C



### Brief description

The MAS 4.0-C manual antenna stand is specifically designed for measurements in electromagnetic absorption chambers at a fixed measuring height.

The MAS 4.0-C manual antenna stand has no metal parts (except for the wheels)

Polarisation change is performed manually. The antenna bar height is manually adjustable. The MAS 4.0-C is equipped with a manual crank which moves the antenna basket.

## Pneumatic Antenna Stand PAS 2.0

### Technical Data

Antenna height adjustable manually	0.7 m to 2.0 m
Total mast height	2.2 m
Load capability	max. 6 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass, weatherproof
Mast cross-section	0.06 m x 0.06 m
Base L x W	0.9 m x 0.6 m
Moveable with 4 casters	
Polarisation	0°/90° (vert./hor.)
Polarisation time 0°/90°	approx. 3 sec
Polarisation drive	Pneumatic rotary actuator
Control	Solenoid valve
Pressure	max. 6 bar
Temperature range	-10 °C...+35 °C
Total weight	25 kg
Accessories	<b>Interface to SCU/MCU Controller</b> 2x 15 m air hose Service manual

### Brief description

The Pneumatic Antenna Stand **PAS 2.0** is specifically designed for measurements in electromagnetic absorption chambers at a fixed measuring height.

The PAS 2.0, with the exception of the rotary actuator, is fabricated from plastic (PVC and reinforced fibreglass).

Polarisation occurs using compressed air. A solenoid valve located outside of the chamber regulates the compressed air flow. The antenna bar height is manually adjustable.

Antenna Adapters for all commercially available antennas are available upon request.

All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **SCU/MCU Controller**.

## **Pneumatic Antenna Stand PAS 2.0**



## Electric Antenna Stand EAS 1.5

### Technical Data

Antenna height fixed	1.5 m
Total mast height	1.7 m
Load capability	max. 6 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass,
weatherproof	
Mast cross-section	0.06 m x 0.06 m
Base L x W	0.9 m x 0.6 m
Moveable with 4 casters	
Polarisation	0°/90° (vert./hor.)
Motor	Brushless DC motor 150 W
Drive unit	shielded and radio interference suppressed
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 2A
Voltage	208-230 VAC, 50/60 Hz, single phase
Temperature range	-10 °C...+35 °C
Total weight 25 kg	
Accessories	<b>Interface to SCU/MCU Controller</b> 1.5 m power supply cable Service manual

### Brief description

The Electric Antenna Stand **EAS 1.5** is specifically designed for measurements in electromagnetic absorption chambers at a fixed measuring height. Other fixed antenna heights are available upon request.

The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **SCU/MCU Controller**.



## Cable Guide Rail CGR 5.3

### Technical Data

Measuring length	min.	5.3 m
Total length	max.	6.0 m
Height		1.05 m
Permissible load		10 kg
Material		Plastic + reinforced fibreglass, weatherproof
Cross-section		0.1 m x 0.1 m
Base L x W		0.3 m x 0.3 m
With supporting pillars		
Positioning speed adjustable between	min.	1 m/ 35 sec
	max.	1 m/ 5 sec
Positioning accuracy	better	+/- 1 cm
Slide bar drive		Toothed belt
Motor		Brushless DC motor 150 W
Drive unit		shielded and radio interference suppressed
Control cable		Fibre optic lines
Remote control via		IEEE interface
Current consumption	max.	2A
Voltage		208-230 VAC, 50/60 Hz, single phase
Temperature range		-10 °C...+35 °C
Total weight		50 kg
Accessories		<b>Interface for SCU/MCU Controller</b> 3 m power supply cable Service manual

### Brief description

The **CGR 5.3** cable measuring guide rail, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

The slide rail has adapter plates, which fit all commercially available measuring clamps. The zero point of the measuring length is located 20 mm from the edge of the slide bar (E.U.T.).

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.



## Field Probe Positioner FPP 2.3/1.5

### Technical Data

Field probe height adjustable	from	0.8 to 2.3 m
Horizontal range		1.5 m
Load capability	max.	2 kg
Total positioner height		2.7 m
Material		Plastic + reinforced fibreglass, weatherproof
Positioner cross-section		60 mm x 60 mm
Positioning speed adjustable between		2 to 15 cm/sec.
Positioning accuracy		+/- 1 cm
Antenna support drive		2 toothed belts
Motor		Brushless DC motor 150 W
Drive unit		shielded and radio interference suppressed
Control cable		Fibre optic lines
Remote control via		IEEE interface
Current consumption	max.	2A
Voltage		208-230 VAC, 50/60 Hz, single phase
Temperature range		-10 °C...+35 °C
Total weight		60 kg
Accessories		<b>Interface to MCU Controller</b> 1.5 m power supply cable Service manual

### Brief description

The biaxial Field Probe Positioner **FPP 2.3/1.5** is specifically designed for either continuous or systematic vertical field strength sensor displacement.

Limit switches and the general mechanical design ensures reliable system operation.

The FPP 2.3/1.5, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.