

# Mitsubishi Electric Air Conditioner Network System

# **Al controller**

PAC-YG63MCA

Installation/Instruction Manual

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Before using the device, carefully read this installation/instruction manual to ensure proper operation. Keep this manual for future reference and give it to the technician when the device is reinstalled or repaired.

#### Safety Precautions

- · Thoroughly read the following safety precautions before use.
- · Hazards that can occur from incorrect handling are classified by the symbols below:

▲Warning	Incorrect handling can result in death, serious injury, etc.
▲ Caution	Incorrect handling can result in bodily injury and/or structure damage.

After reading this manual, keep this manual for future reference. When the device is reinstalled or repaired, give this
manual to those who provide these services. When the user changes, make sure that the new user receives this
manual.



#### 2 Usage

The AI controller measures temperature and humidity; it also has an alarm capability if the measurement data exceeds defined setpoints. Historical measurement data can be displayed via only the G(B)-50A Web browser and TG-2000A. Temperature and humidity cannot be displayed on the G-50A LCD.

Furthermore, an alarm can be output if measurement data exceeds a preset upper or lower limit.

The AI controller also features a function that interlocks M-NET devices for indoor units, etc. set in advance and performs settings such as temperature control and operation/stoppage using measurement data values.

#### ▲ Caution: Usage Restrictions

 Mitsubishi Electric does not take financial responsibility for damages caused by issues beyond our control or special circumstances (predicable or unpredictable); and secondary or accidental damages, and damages to other objects. We also do not take financial responsibility for opportunities lost as a result of device failure, or electrical power failure at the enduser site.

Mitsubishi Electric does not take financial responsibility caused by end-users' requests including, but not limited to, device testing, startup, readjustment and replacement.

· Do not use this device in disaster prevention security or "critical to life" applications.

#### 3 Parts List

· The following parts should be included in your shipment:

Number	Part Name	Quantity
1	AI controller	1
2	Installation/instruction manual (this document)	1

\* In addition to the parts listed above, see your local Mitsubishi Electric dealer to purchase the other parts necessary to operate this device (Refer to section 6-1). Furthermore, depending on the application, other Mitsubishi Electric parts may be required. For details, refer to "6, Installation".

#### 4 Specifications

#### 4-1. Device Specifications

Item	Description							
Power Supply	24 V	DC±1	0%:	5 W				Screw terminal block (M3) (*5)
	M-NET communication			unication	17 to 30 VDC (*	1)		Screw terminal block (M3) (*5)
		Ch		Sensor	Measurement target	Measurement range	Measurement error	External connection method
			(3	Pt100 -wire system)	Temperature	-30 to 60°C [-22 to 140°F]	±0.3%FS ±0.1°C (0.18°F) (*3) [at 25°C (77°F)]	Screwless terminal block (3 poles)
Interface	Input	Ch1	Analog	4 to 20 mADC 1 to 5 VDC 0 to 10 VDC	Temperature/ humidity	(Set by system controller)	±0.5%FS ±0.1°C (0.18°F) (*3) ±0.5%FS ±0.1%RH [at 25°C (77°F)]	Screwless terminal block (2 poles)
	(*2)	Ch2	Analog	4 to 20 mADC 1 to 5 VDC 0 to 10 VDC	Temperature/ humidity	(Set by system controller)	±0.5%FS ±0.1°C (0.18°F) (*3) ±0.5%FS ±0.1%RH [at 25°C (77°F)]	Screwless terminal block (2 poles)
	Output	U alar (nor	ppe m in n-vo	r/lower limit terlock output ltage contact)	Applied load MAX: 24 VDC, 5 W MIN: 5 VDC, 2 mW * AC loads cannot be connected.			Screw terminal block (M3.5) (*5)
Interlock Function	Inter	lock N	I-NE	T devices accor	rding to measure	ment data values	. (*4)	
Environment	Tem	peratu	ire		Operating temp	erature range	0 to 40°C [32°F to 104°F]	
Conditions	11	المانات	-		Storage tempera	ature range	-20 to 60°C [-4°F to 140°F]	
Dimensions	Humilially $30 t0 90\%$ KH (no condensation) $200 (M) \times 45 (D) \text{ mm} / 77/8 (M) \times 43/4 (H) \times 125/22 (D) \text{ in}$							
Weight	0.6 kg / 13/8 lb							
Time Backup During Power Failure	In the event of power failure or shut-off, the internal capacitor will continue to track time for approximately one week. (The internal capacitor takes about 24 hours to fully charge; a replacement battery is not necessary.)							
Installation Environment	Insid * Us	e this ا	ontro prod	l panel (indoors uct in a hotel, a	) business office e	nvironment or sir	nilar environment.	

\*1: Supply electric power from a power supply unit for the transmission line or an outdoor unit. Furthermore, the power consumption factor of the M-NET circuitry of this unit is "1/4" (equivalent to one ME Remote Controller).

\*2: Configure the dip switch settings for the analog input method to use while referring to "9. Dip Switch Functions".

\*3: The measurement error for the system includes the measurement error for this unit, sensor, and wiring.

a%FS (full scale) = a% × ([measurement range's upper limit value] - [lower limit value])

\*4: Settings for the interlock function are performed from the Maintenance Tool. For details, refer to the operation manual for the Maintenance Tool.

\*5: M3 and M3.5 are sizes of the screw on the terminal block (ISO metric screw thread). The number indicates the screw diameter (mm).

#### 4-2. External Dimensions





#### 5 Example of System Configuration



#### Note:

- For the shield ground of the M-NET centralized control line, use single-point grounding at the power unit for the transmission line.
- However, when supplying electric power to the M-NET centralized control line from the R410A series outdoor unit without using a power supply unit for the transmission line, use single-point grounding at the TB7 of that outdoor unit. Furthermore, when connecting the M-NET transmission line of this device to the M-NET indoor control line, use grounding at the TB3 for each outdoor unit system.
- If the M-NET transmission line of this device is connected to an M-NET indoor control line and the outdoor unit is down because, for example, the power supply is interrupted for servicing or there is a failure, the AI controller cannot be set and monitored from the system controller.
- The sensor connected to the AI controller can only be monitored from G(B)-50A Web browser and TG-2000A. The sensor cannot be monitored from the G-50A LCD.

## 6 Installation

### 6-1. Parts Purchased Separately

Prepare the following parts to install this device.

Required Part	Specification
Unit fixing screws	M4 screw × 4 (* M4: ISO metric screw thread)
Power supply for this device	Commercially available power source: 24 VDC±10% 0.2 A (Minimum loading), SELV circuit, power line with grounding terminal Ripple noise: Lower than 200 mVp-p Compatible specification Authorized or CE marked products. Subject to regulations: - IEC60950 (or EN60950) - CISPR22/24 (or EN55022/24) - IEC61000-3-2/3-3 (or EN61000-3-2/3-3)
Power supply for sensors	A separate power supply for sensors may be required. In the case of 24 VDC voltage, the capacity of the power supply for this unit can be increased so that the power supply can be shared.
Power line	Use a sheathed vinyl cord or cable. At least 0.75 mm² (AWG18)
M-NET transmission line	<ul> <li>Type of the cable: Sheathed vinyl cords or cable which comply with the following specifications or equivalent.</li> <li>CPEV Φ1.2 mm to Φ1.6 mm • CVVS 1.25 mm² to 2 mm² (AWG 16 to 14)</li> <li>* CPEV: PE insulated PVC jacketed shielded communication cable</li> <li>* CVVS: PVC insulated PVC jacketed shielded control cable</li> <li>PE: Polyethylene PVC: Polyvinyl chloride</li> <li>Power needs to be supplied to the M-NET circuitry of this device. Use an outdoor unit or a separately purchased power supply unit for the transmission line.</li> </ul>
Signal lines (Sensor input lines)	<ul> <li>Shows the size of the electric wire (copper wire) that is adapted to the terminal block of this device. Refer to the usage and cautionary items of the sensor when performing settings. However, use a line with shielded line.</li> <li>Electric wire size ···· (1) Solid wire: Φ0.65 mm (AWG21) - Φ1.2 mm (AWG16)</li> <li>(2) Stranded wire: 0.75 mm² (AWG18) - 1.25 mm² (AWG16)</li> <li>Single strand: At least Φ0.18 mm</li> </ul>

[Parts to be Purchased Separately]

Name	Model	Application	Remark
Power supply unit	PAC-SC50KUA	Power supply to the M-NET transmission line	This is not required when power is to be supplied from an outdoor unit.

[Commercially available parts]

Part	Use	Remark
External 24 VDC power source	Supplies power to the AI controller.	Refer to "Power supply for this device" and "Power supply for sensors" in "Required Part" above for the capacity of the power supply.
Sensor	Measures temperature and humidity.	Temperature sensor (PAC-SE40TSA) cannot be connected.

#### 6-2. Installation Instructions

The AI controller PAC-YG63MCA does not have a waterproof structure.

Be sure to install the AI controller inside a control panel that is located indoors.

Prepare a control panel capable of storing this device such as the one shown in the figure. (Install the device in a control panel strong enough to withstand a weight of 0.6 kg [1<sup>3</sup>/<sub>8</sub> lb].)

This device can be installed horizontally, or as shown below, vertically. The following diagram also provides a rough estimate of how much space is required around the installation.



Note: The space shown above does not include space for peripherals. Additionally, the amount of space necessary varies according to the functions that are used and the wiring method. Secure enough space appropriate for the type of installation.

(1) Fix the top of this device to the control panel at two points by loosely tightening the screws (M4) that were procured locally. Fix the bottom in place with two screws and then tighten all four of the screws.



(2) To remove the cover, as shown in the figure, remove the two screws for fixing the cover in place and then remove the cover by unhooking the upper hook section from the lower case. To attach the cover, hook the upper hook section on the lower case and then fix the cover in place with the two screws that were removed.



(3) Refer to "7. Wiring Instructions" and connect the wires for the power line, M-NET transmission line, output signal lines, and sensor input signal lines.



Diagram Image (Installed within a Control Panel)



#### 7 Wiring Instructions

#### 7-1. Terminal Diagram



#### 7-2. Connecting the Power and M-NET Transmission Lines



Figure 7-1 Example of Connecting the Power Line and M-NET Transmission Line

#### ▲ Caution:

- Use a power line and M-NET transmission line that satisfy the specifications described in "6-1. Parts Purchased Separately".
- Attach a circuit comprising the following components to the supply primary side of the 24 VDC power supply.
   (1) Varistor, (2) Arrester, (3) Noise filter, (4) Fuse
- It is important to pay attention to the polarity when connecting to the 24 VDC power supply terminal block. Connecting the positive and negative in the reverse order will cause a failure.
- Fix the power line and M-NET transmission line in place on the outside to ensure that the terminal block is not affected by any external force.
- Not securely connecting and fixing the wires in place may cause heat generation and fire.
- Make sure that the copper wiring is not short-circuiting the plates (cover, lower case) or neighboring wires.
   Cover the shielded line of the M-NET transmission line with materials such as vinyl tape and prevent short-circuiting with the plates.

Note:

- If the M-NET transmission line of this device is connected to an M-NET indoor control line and the outdoor unit is down because, for example, the power supply is interrupted for servicing or there is a failure, the AI controller cannot be set and monitored from the system controller.
- Be sure to ground this device, PAC-SC50KUA and 24 VDC Power source. Measurement accuracy may be affected if devices are not grounded.

#### 7-3. Connecting the Sensors

- For channel 1, select one of the following four types: Pt100 detection, 4 to 20 mADC, 1 to 5 VDC, or 0 to 10 VDC analog input.
- For channel 2, select one of the following three types: 4 to 20 mADC, 1 to 5 VDC, or 0 to 10 VDC analog input.
- The wire length depends on the specifications of the sensor. However, since the use of long wires makes the device susceptible to noise, using wires shorter than 12 m (39.4 ft) is recommended. Use a shielded line for the sensor line and connect to the FG terminal on this unit or the FG terminal on the control panel.
- (1) Channel 1 Pt100 Input

To use these, various settings need to be configured. Refer to "8. Initial Settings".





 (2) Channel 1 (Channel 2) Analog Input (4 to 20 mADC, 1 to 5 VDC, 0 to 10 VDC) To use these, various settings need to be configured. Refer to "8. Initial Settings".



- (a) When 1 to 5 VDC, 0 to 10 VDC, or 4 to 20 mADC (type for which power is supplied to the sensor) is connected
- (b) When 4 to 20 mADC (type for which power is supplied to the signal line) is connected



#### ▲ Caution:

- Select a power supply that is suitable for the sensor to be used.
- Do not install the sensor input line parallel to or near the M-NET transmission line or power line. Also avoid loop wiring. Furthermore, confirm the precautions for the sensor.
- Strip  $12\pm1 \text{ mm} (15/32 \pm 1/32 \text{ in})$  of the wire coating and insert firmly into the terminal.
- Make sure that the copper wiring is not short-circuiting the plates (cover, lower case) or neighboring wires.
- Perform wiring so that the terminal block is not strained.
- If strained, use a wire guide or junction terminal to alleviate the stress on the terminal block.

#### 7-4. Connecting Alarm Setpoint Outputs (Non-valtage Contacts)

The maximum wire length is 100 m. However, since the use of long wires makes the device susceptible to noise, using wires no more than 10 m long is recommended.

To use these, various settings need to be configured. Refer to "8. Initial Settings".





Tightening torque for terminal screws: 1 N·m.

\* The contact of the internal relay is always ON during detection of an upper/lower limit alarm. (Level output)



electric shock or fire.

#### 8 Initial Settings

After completing the procedures described in "6. Installation" and "7. Wiring Instructions", set the initial settings in accordance with the procedure described below.

(1) M-NET address settings



Note:

- An address from 01 to 50 can be set.
- Set an address that is not the same as that of

another unit.

The address is set to "01" at factory default.

(2) Use the dip switches to select functions.

Select the function required for each input/output channel to be used.

The switch assignment for each channel is shown below. Configure each of the settings while referring to "9. Dip Switch Functions ".

- For channel 1, select one of the following four types: Pt100 detection, 4 to 20 mADC, 1 to 5 VDC, or 0 to 10 VDC analog input.
- For channel 2, select one of the following three types: 4 to 20 mADC, 1 to 5 VDC, or 0 to 10 VDC analog input.

(a) When using Pt100 detection (only channel 1 can be used)

Ch	Setting	Setting Switch	Pt100	To not use
Ch1	Pt100 used	(1) SW01-1 (2) SW01-3	ON ON	OFF OFF

(b) When using one of the analog inputs (4 to 20 mADC detection, 1 to 5 VDC detection, and 0 to 10 VDC detection)

Ch	Setting	Setting Switch	4 to 20 mADC	1 to 5 VDC	0 to 10 VDC	To not use
Ch1	Setting of sensor to use	(1) SW11-1 (2) SW11-2 (3) SW01-1 (4) SW01-2 (5) SW01-3	ON ON OFF OFF	OFF ON ON OFF OFF	OFF OFF ON ON OFF	OFF OFF OFF OFF OFF
Ch2	Setting of sensor to use	(1) SW12-1 (2) SW12-2 (3) SW02-1 (4) SW02-2	ON ON OFF	OFF ON ON OFF	OFF OFF ON ON	OFF OFF OFF OFF

(c) When using upper/lower limit alarm interlock output

Ch	Setting	Setting Switch	To use	To not use
Ch1	Usage of upper/lower limit alarm interlock output	(1) SW01-5	ON	OFF
Ch2	Usage of upper/lower limit alarm interlock output	(1) SW02-5	ON	OFF

(d) Measurement data backup interval setting (for servicing)

Ch	Setting	Setting Switch	1 min	2 min	5 min	10 min
Common	Measurement data backup interval setting	(1) SW03-1 (2) SW03-2	OFF OFF	OFF ON	ON OFF	ON ON

(3) Turn on the power of this device.

Verify that the LED16 (CPU power on) and LED17 (M-NET power on) are lit.

#### (4) Set the time.

Set the current time from a system controller (G(B)-50A, TG-2000A) or a Maintenance Tool.

(5) Configure the settings of the system controller (G(B)-50A or TG-2000A).

Configure settings for the system controller (G(B)-50A or TG-2000A) such as the type of sensor to use and the measurement range.

The main items that should be set are shown below.

(a) When using Pt100 detection (only channel 1 can be used)

Ch	Setting	Setting with G(B)-50A or TG-2000A		
Ch1	Measurement category setting	Select temperature/humidity (Be sure to select temperature.)		
	Measurement range setting	Set the upper limit and lower limit values (Set a range from -30°C [-22°F] to 60°C [140°F].)		
	Measurement correction	Input the measurement temperature correction value (offset value)		

(b) When using an analog input (4 to 20 mADC detection, 1 to 5 VDC detection, or 0 to 10VDC detection)

Ch	Setting	Setting with G(B)-50A or TG-2000A	
Ch1	Measurement category setting	Select the temperature/humidity	
	Measurement range setting	Set the upper limit and lower limit values	
	Measurement correction	Input the measurement correction value (offset value)	
Ch2	Measurement category setting	Select the temperature/humidity	
	Measurement range setting	Set the upper limit and lower limit values	
	Measurement correction	Input the measurement correction value (offset value)	

(c) When using upper/lower limit alarm interlock output

Ch	Setting	Setting with G(B)-50A or TG-2000A
Ch1	Upper/lower limit alarm detection value and cancellation value settings	Upper/lower limit alarm detection value and cancellation value settings
Ch2	Upper/lower limit alarm detection value and cancellation value settings	Upper/lower limit alarm detection value and cancellation value settings

(6) Settings for the interlock function are performed from the Maintenance Tool. Perform settings such as interlock criteria for this device from Maintenance Tool. For details, refer to the operating manual for the Maintenance Tool.

#### **Dip Switch Functions** Supported SW OFF ON Function Remark Channel SW01 Selection of the input to use No Yes Specify whether to use the channel 1 input terminal. 1 4 to 20 mADC/ 0 to 10 VDC Set the type of analog input for channel 1 (1). 1 to 5 VDC 2 detection Selection of the analog input This should also be set in accordance with the selection detection of analog input type (2) (SW11-1 and 2). type (1) Pt100 \* The setting of SW01-2 is disabled when SW01-3 is ON. 3 detection Channel 1 4 Unused Set to OFF Specify whether to use channel 1 upper/lower limit Selection of upper/lower limit 5 No Yes alarm interlock output use alarm interlock output. Unused 6 Set to OFF 7 Set to OFF Unused 8 Unused Set to OFF SW02 1 Selection of the input to use No Yes Specify whether to use the channel 2 input terminal. 4 to 20 mADC/ Set the type of analog input for channel 2 (1). Selection of the analog input 0 to 10 VDC 2 1 to 5 VDC This should also be set in accordance with the selection type (1) detection of analog input type (2) (SW12-1 and 2). detection 3 Unused Set to OFF 4 Unused Set to OFF Channel 2 Specify whether to use channel 2 upper/lower limit alarm interlock output. Selection of upper/lower limit 5 No Yes alarm interlock output use 6 Set to OFF Unused 7 Unused Set to OFF 8 Unused Set to OFF SW03 Measurement data backup interval SW03-1 SW03-2 1 1-minute interval: (2 hours worth) OFF OFF Set to back up measurement data to the fixed memory. 2-minute interval: (4 hours worth) 5-minute interval: (10 hours worth) OFF ON Excess past data will be erased. ON OFF 2 10-minute interval: (20 hours worth) ON ON 3 Unused Set to OFF 4 Unused Set to OFF 5 Unused Set to OFF 6 Unused Set to OFF Set to OFF 7 Unused 8 Unused Set to OFF (Address 10s) SW06 An address from 01 to 50 can be set. 0 to 9 (decimal) Set an address that is not the same as that of another M-NET address (Address 1s) unit SW07 0 to 9 (decimal) SW08 Set to OFF 1 Unused 2 Unused Set to OFF Unused 3 Set to OFF 4 Unused Set to OFF Unused Set to OFF 5 6 Unused Set to OFF SW09 1 Unused Set to OFF 2 Unused Set to OFF SW11 Selection of analog input type (2) SW11-1 SW11-2 1 0 to 10 VDC detection OFF OFF Set the type of analog input for channel 1 (2) OFF Channel 1 1 to 5 VDC detection ON \*1: This setting is not necessary when SW01-3 is ON. OFF ON Setting not possible 2 4 to 20 mADC detection: ON ON SW12 SW12-1 SW12-2 Selection of analog input type (2) 1 OFF 0 to 10 VDC detection OFF Channel 2 1 to 5 VDC detection OFF ON Set the type of analog input for channel 2 (2) OFF ON 2 Setting not possible 4 to 20 mADC detection: ON ON

Set the dip switches for function selection according to the system to be used.

At factory default, the SW01, SW02, SW03, SW08, and SW09 dipswitches are all set to OFF; the SW11 and SW12 dipswitches are both set to ON, and the M-NET address is set to 01.

Be sure to turn off the power before changing switch settings.

#### **10** LED Display Designations

The LEDs of this device indicate the upper/lower limit alarm interlock output status and error status of this device.

#### **10-1.Alarm Setpoint Output and Error Displays**

Display Item			Display LED	Content			
				Note ●:On, 〇:Off, 🎇:Flashing			
Power supply status		(1) Power supply to CPU	LED16 (CPU power on)	: Lights when the CPU is energized.			
				Section: ***			
		(2) Power supply to M-NET circuit	LED17 (M-NET power on)	Lights when the M-NET is energized.			
Output	Ch1, 2	(1) Upper/lower limit alarm interlock output status	LED03/02 (Output LEDs)		Ch1	Ch2	
status				Output Method			
				Moulou	LED 03	LED 02	
				Level Output	●: Alarm output 〇: Alarm stop	● : Alarm output ◯ : Alarm stop	
Error status (*1)		(1) 4-digit error code	LED12/13/14/15 (Status display LEDs)	Refer to "10-2. Sensor and Communication Error Displays".			

\*1: When a sensor error or communication error occurs, the error status is displayed.

#### **10-2.Sensor and Communication Error Displays**

If a sensor error or communication error occurs, a 4-digit error code will be repeatedly displayed according to the steps shown below.

"Sensor and Communication Error Displays" consist of the following 10 steps. This operation is performed repeatedly to indicate the 4-digit error code for the error.

Note On, O:Off, 💥 :Flashing

	LED11	LED12	LED13	LED14	LED15			
	0	Error code display (Binary number indication)			indication)	Function	Remark	
	Common	2 <sup>3</sup> =8 2 <sup>2</sup> =4 2		2 <sup>1</sup> =2	2 <sup>0</sup> =1			
STEP1	0	*	*	*	*	"Sensor and Communication Error Displays" Starting Point Indication	LEDs 12 to 15 flash 3 times	
STEP2	0	0	0	0	0	Blank	Turn Off	
STEP3	•	•/○	•/○	•/○	•/○	Error code 1000's digit	Error code 1000's digit indication In the case of 6, ○●●○	
STEP4	0	0	0	0	0	Blank	Turn Off	
STEP5	•	•/•	•/•	•/○	•/○	Error code 100's digit	Error code 100's digit indication In the case of 6, ○●●○	
STEP6	0	0	0	0	0	Blank	Turn Off	
STEP7	•	•/○	•/○	•/○	•/○	Error code 10's digit	Error code 10's digit indication In the case of 0, 0000	
STEP8	0	0	0	0	0	Blank	Turn Off	
STEP9		•/0	•/〇	•/0	•/〇	Error code 1's digit	Error code 1's digit indication In the case of 7, ○●●●	
STEP10	0	0	0	0	0	Blank	Turn Off	

The error codes that are displayed for M-NET communication errors and sensor errors are as shown below.

Error Code	Description of Error	Error Code	Description of Error
6600	Multiple address error	6607	No ACK error
6601	M-NET polarity unset error	6608	No return of response frame
6602	Transmission processor hardware error	5010	Sensor trouble in Channel 1
6603	Transmission bus-busy error	5020	Sensor trouble in Channel 2
6606	Communications with transmission processor error		

#### **11** System Operation Test

Use the following procedure to confirm operation of the system.

- (1) Configure the settings of this device and the system controller while referring to "8. Initial Settings".
- (2) Confirm whether the measurement values of channel 1 and channel 2 are displayed on the system controller properly.
  - \* Depending on the conditions, compare the measurement values with those of, for example, a commercially available portable thermohygrometer.

If the measurement accuracy of the sensor used results in extreme differences in the measurement values, use the measurement correction value (offset value) input function of the system controller to correct the measurement values.

(3) When upper/lower limit alarm interlock is to be used, input a value that exceeds the set alarm level and confirm whether the alarm is displayed on the controller. Furthermore, confirm whether the alarm output operation takes place from the contact output at the same time.

If there is a problem, check the wiring and settings.

For details on configuring settings, refer to "8. Initial Settings" and "9. Dip switch functions".

This product is designed and intended for use in the residential, commercial and light-industrial environment.

This product at hand is based on the following EU regulations:

- Low Voltage Directive 2006/95/EC
- Electromagnetic Compatibility Directive 2004/108/EC

#### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

