



Wireless amplified repeater for outdoor mounting

- Compact size
- Extended radio range
- Wide-ranging power supply flexibility
- Suitable for outdoor installation

KET-RMB-210.S

Applications	
Monitoring consumption	
Building management system	
Smart city	
Accounting	
Thermoregulation	

The **KET-RMB-210.S**, together with the Gateway and the nodes with integrated Repeater functionality, provides the **network infrastructure** necessary for the correct transmission of data collected by wireless sensors.

Its high degree of protection, **IP65**, makes it suitable for outdoor installation. The ZigBee™ standard guarantees high reliability and resistance to interference, while the high sensitivity of the radio module can reach distances of **over 1000 m** in free air. The standard antenna connector supports 90° joint antennas or wired ones for placement outside the electrical panel.

Thanks to increased power, this device reduces the total number of nodes in the network.

COD E	P R O T E C T I O N R A N G E	O P E R A T I V E T E M P E R A T U R E	S T O R A G E T E M P E R A T U R E	R E L A T I V E H U M I D I T Y	D I M E N S I O N S	M O U N T I N G	R E Q U I R E D D I N M O D U L E S	E L E C T R I C B O A R D T Y P E	M A T E R I A L	S U P P L Y V O L T A G E	C O N S U M P T I O N	C O N N E C T O R S T Y P E S	S U P P O R T E D P R O T O C O L S	R A D I O F R E Q U E N C Y	O U T P U T P O W E R	S E N S I T I V I T Y	A N T E N N A T Y P E	M A X D I S T A N C E (F R E E A I R)	R A D I O S I G N A L I N D I C A T O R	O U T P U T P O W E R A D J U S T M E N T	F I R M W A R E U P G R A D E
KET-RMB-210	I P 5 0	- 2 0 ÷ + 6 0 ° C			5 3 , 5 x 1 1 0 x 6 1 m m (W x H x D)	W a l m o u n t i n g o r o n D I N r a i l w i t h s u p p l i e	3 D I N m o d u l e s	I n d u s t r i a l	B l e n d P C / A B S s e l e x t i n g u i s h i n g U L 9 4 - V O	1 2 ÷ 2 4 V D C , 1 2 ÷ 2 0 V A C ; 2 3 0 V A C w i t h i n t e g r	< 1 . 5 W @ 1 2 ÷ 2 0 V A C / < 1 . 5 W @ 1 2 ÷ 2 4 V D C / < 1 . 5	S c r e w t e r m i n a l	X - M o n i t o r p r o t o c o l (X - M P) / I E E E 8 0 2 . 1 5	2 . 4 G H z I S M B a n d	+ 3 ÷ + 2 0 d B m	- 1 0 4 d B m	R P S M A c c o n n e c t o r , 9 0 ° a n t e n n a s u p p l i e d	O v e r 1 0 0 0 m	I n t e g r a t e d (L i n k Q u a l i t y)	F r o m l o c a l k e y b o a r d a n d r e m o t e l y	V i a r a d i o

COD E	P R O T E C T I O N R A N G E	O P E R A T I V E T E M P E R A T U R E	S T O R A G E T E M P E R A T U R E	R E L A T I V E H U M I D I T Y	D I M E N S I O N S	M O U N T I N G	R E Q U I R E D D I N M O D U L E S	E L E C T R I C B O A R D T Y P E	M A T E R I A L	S U P P L Y V O L T A G E	C O N S U M P T I O N	C O N N E C T O R S T Y P E S	S U P P O R T E D P R O T O C O L S	R A D I O F R E Q U E N C Y	O U T P U T P O W E R	S E N S I T I V I T Y	A N T E N N A T Y P E	M A X D I S T A N C E (F R E E A I R)	R A D I O S I G N A L I N D I C A T O R	O U T P U T P O W E R A D J U S T M E N T	F I R M W A R E U P G R A D E
						d s u p p o r t s				a t e d p o w e r s u p p l y	W @ 2 3 0 V A C		. 4 / Z i g B e e P r o 2 .0								

Technical Features	
General specifications	Protection Range: IP65 Operative Temperature: -20 ÷ +60 °C
Case	Dimensions: 53,5 x 110 x 61 mm (W x H x D) Mounting: Wall mounting or on DIN rail with supplied supports Required DIN modules: 3 DIN modules Electric Board Type: Industrial or switchboard Material: Blend PC/ABS sel extinguishing UL94-VO
Power supply	Supply Voltage: 12 ÷ 24 VDC, 12 ÷ 20 VAC; 230 VAC with integrated power supply Consumption: < 1.5 W @ 12 ÷ 20 VAC / < 1.5 W @ 12 ÷ 24 VDC / < 1.5 W @ 230 VAC Connectors types: Screw terminal
Radio module	Supported Protocols: X-Monitor Protocol (X-MP) / IEEE 802.15.4 / ZigBee™ Pro 2.0 Radio Frequency: 2.4 GHz ISM Band Output Power: +3 ÷ +20 dBm Sensitivity: -104 dBm Antenna Type: RPSMA connector, 90° antenna supplied Max Distance (Free Air): Over 1000 m
Functionality	Radio Signal Indicator: Integrated (LinkQuality) Output Power Adjustment: From local keyboard and remotely Firmware Upgrade: Via radio