



ШЛЮЗ ПРОТОКОЛА LONWORKS  
*MD-LonGW64/E*



LONMARK<sup>®</sup>  
INTERNATIONAL

202055190076

ИНСТРУКЦИЯ

[www.mdv-russia.ru](http://www.mdv-russia.ru)

Благодарим Вас за покупку нашего кондиционера.  
Внимательно изучите данное руководство и храните  
его в доступном месте.



Продукция сертифицирована

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[REDACTED]

BMS,

LonWoorks®

[REDACTED]

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	1
On-line/Off-line	1
-	

NO.		
1		Neure 10MHz, 64K Flash
2		Hidden operation switch Operation LED (Red) Power LED(Green)
3		
4		177~265VAC 2A
5		+15      +35 65%
6		(       /       )      LNS
7		RS485      MD-Net FT-10 LonWorks      LNS
8		31.9cm X 25.1cm X 6.1cm

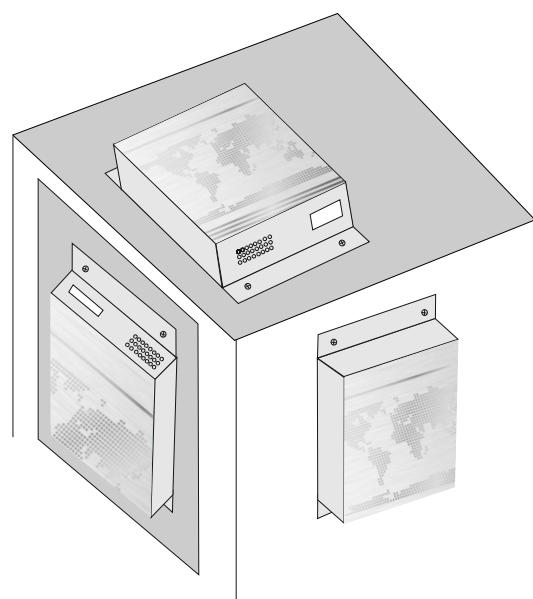
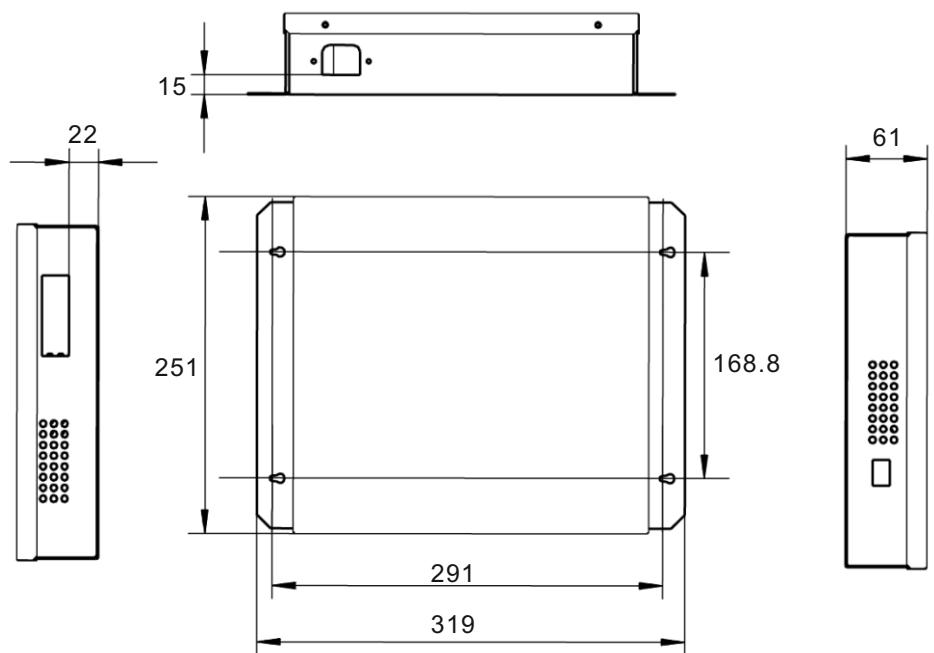
\* FT-10 LNS MD-LonGW64/E



LonWorks

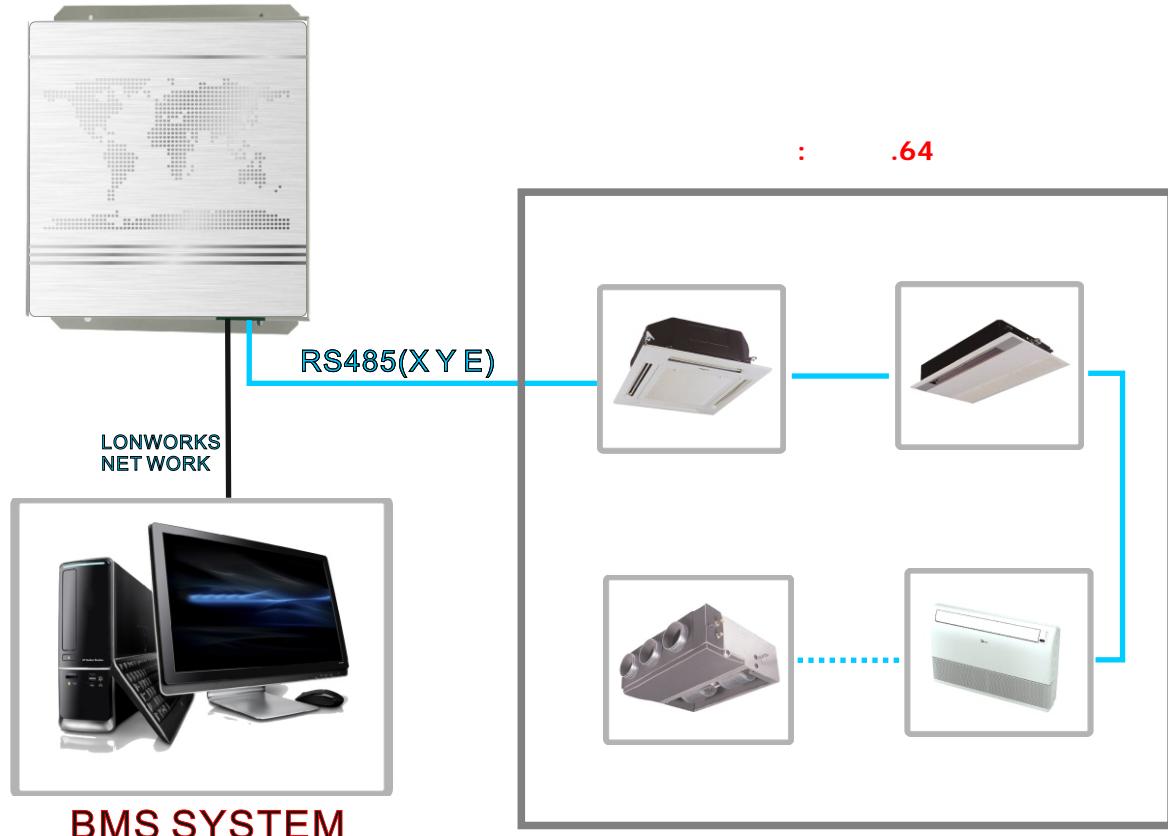


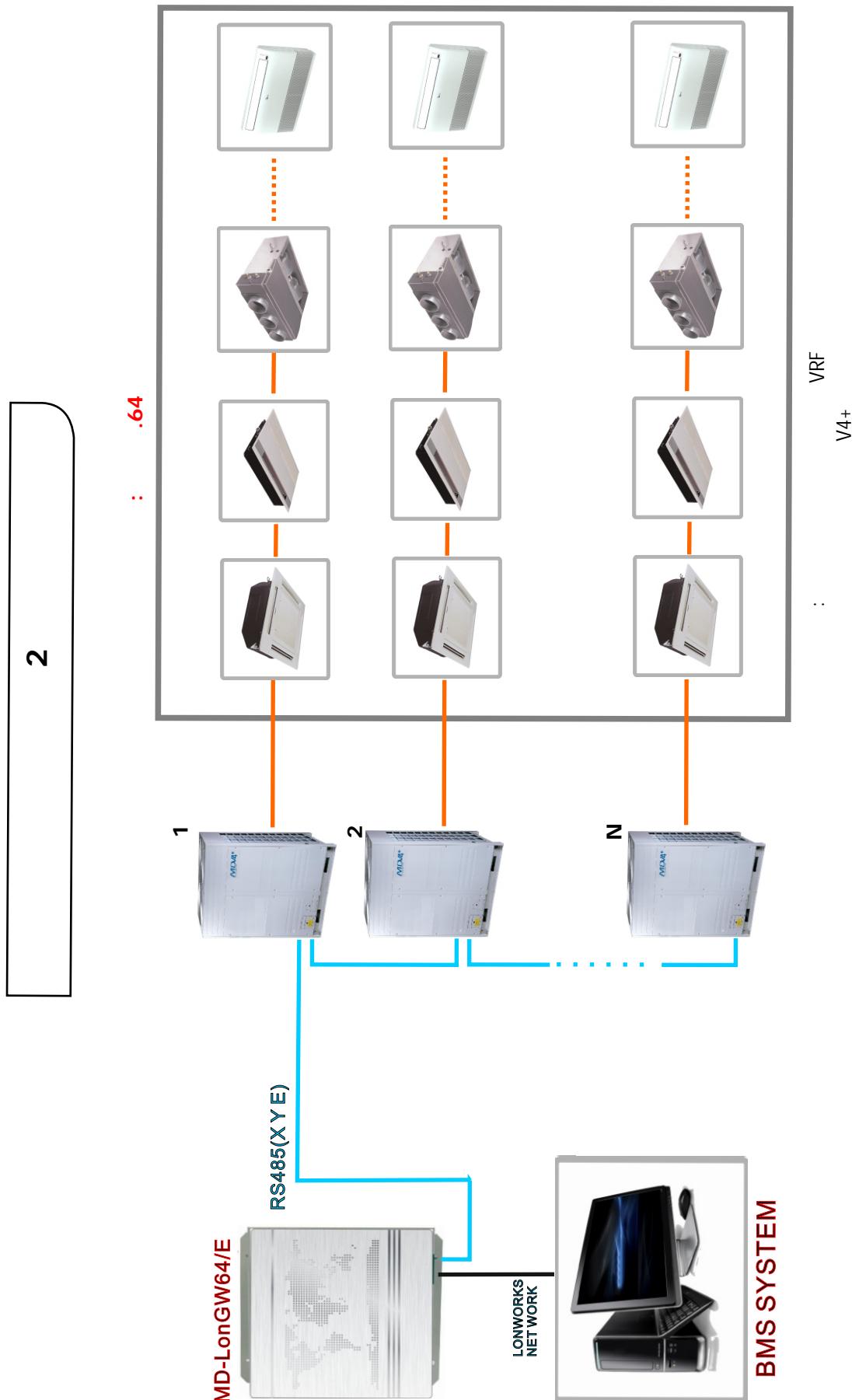
AC 220V



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### MD-LonGW64/E





(n: 1~32: : 1~31)

NO.						
1	nviSetWorkMode[n]	SNVT_hvac_mode		HVAC_AUTO=0 HVAC_HEAT =1 HVAC_COOL=3 HVAC_FAN ONLY=9 HVAC_OFF=6	Initial value Heat Mode Cool Mode Fan only Mode OFF Mode	
2	nviSetFanSpeed[n]	SNVT_switch		LonMarker Decimal system 10.0 1 LOW 20.0 1 MED 40.0 1 HIGH 100.0 1 AUTO	NLUtil Node Utility Hexadecimal system 14 01 LOW 28 01 MED 50 01 HIGH C8 01 AUTO	
3	nviSetTemp[n]	SNVT_temp_p		LonMarker Decimal system 17.00=17C 18.00=18C 19..=19C 20..=20C 21..=21C 22..=22C 23..=23C 24..=24C 25..=25C 26..=26C 27..=27C 28..=28C 29..=29C 30..=30C	NLUtil Node Utility Hexadecimal system 06 A4 07 08 07 6C 07 D0 08 34 08 98 08 FC 09 60 09 C4 0A 28 0A 8C 0A F0 0B 54 0B B8	Initial value=24C  For air conditioner:less than 17, then will be treated as 17;larger than 30, then will be treated as 30;non-integer setting between 17~30, only treat its integer part, such as 24.5, it will be treated as 24  For upper side unit systems: be rounded to 2 decimal places

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(n: 1~32: : 1~31)

NO.					
1	nvoSetTemp[n]	SNVT_temp_p		17.00=17C 19...=19C 21...=21C 23...=23C 25...=25C 27...=27C 29...=29C	18.00=18C 20...=20C 22...=22C 24...=24C 26...=26C 28...=28C 30...=30C
2	[n[nvoIndoorTemp	SNVT_temp_p		17.00=17C 19...=19C 21...=21C 23...=23C 25...=25C 27...=27C 29...=29C	18.00=18C 20...=20C 22...=22C 24...=24C 26...=26C 28...=28C 30...=30C
3	[n[nvoWorkState	1z_state_SNVT		Bit0 Phase error or no phase Bit1 Communication error Bit2 T1 sensor error Bit3 T2 sensor error Bit4 T2B sensor error Bit5 T3 or T4 or digital compressor discharge temperature sensor error Bit6 Zero crossing detection error Bit7 EEPROM error Bit8 Fan speed detection out of control Bit9 Comm. error(main board and display board) Bit10 Compressor over cureent (4 times) Bit11 Inverter module protection Bit12 Fresh error Bit13 Outdoor unit error protection Bit14 Water level detection error Bit15 Other errors ..... Bit48 Evaporator temperature protection Bit 49 Anti-cold air or defrosting protection	0-15 48-63
4	NvoWork n[ModeFan[	status_hvac_SNVT	MODE	HVAC_AUTO Initial value HVAC_HEAT Heat Mode HVAC_COOL Cool Mode HVAC_FAN ONLY Fan only Mode HVAC_OFF OFF Mode	
		Fan_output		0.005 HIGH 0.010 MED 0.020 LOW 0.000 AUTO	
		In_alarm		0 Communication success 1 Communication consequential failure 1 time 2 Communication consequential failure 2 times 3 Communication consequential failure 3 times 4 Communication consequential failure 4 times 5 Communication consequential failure 5 times 6 Communication consequential failure 6 times 7 Communication consequential failure 7 times  Communication consequential failure 7 times, the value 1 will re-calculate until communication success, and then this value will be zero;	

NO.					
1	Baud rate	nciUARTBaud	SNVT_count	0 : 1200 bps 1 : 2400 bps 2 : 4800 bps Initial value=2	Use for setting the baud rate of Rs 485 port
2	Waiting time	nciWaitRespTime	SNVT_count	Initial value=100ms	When waiting the response time, give a WaitRespTimer value for the timer while initialization, and when the timer is time-out that means no data received. (Suggest the setting value should not less than 100ms)
3	period	nciWaitTime	SNVT_count	Initial value=300ms	Adjust the scanning period and affect the network variable updating, then give a WaitTimer value for the timer while initialization. (Suggest the setting value should not less than 100ms)

NO.					
1		nviSetWorkMode_33	SNVT_hvac_mode	HVAC_AUTO=0 HVAC_HEAT=1 HVAC_COOL=3 HVAC_FAN ONLY=9 HVAC_OFF=6  * Beside the above value setting, the air conditioner will respond as the cool mode\low fan and 24Y	Initial value Heat Mode Cool Mode Fan only Mode OFF Mode
2		nviSetFanSpeed_33	SNVT_switch	LonMarker Decimal system 10.0 1 LOW 20.0 1 MED 40.0 1 HIGH 100.0 1 AUTO	NLUtil Node Utility Hexadecimal system 14 01 LOW 28 01 MED 50 01 HIGH C8 01 AUTO
3		NviSetTemp_33	SNVT_temp_p	* Do not suggest setting other value except the above value setting.	Initial value=24C  LonMarker Decimal system 17.00=17C 18.00=18C 19...=19C 20...=20C 21...=21C 22...=22C 23...=23C 24...=24C 25...=25C 26...=26C 27...=27C 28...=28C 29...=29C 30...=30C  For air conditioner:less than 17, then will be treated as 17;larger than 30, then will be treated as 30;non-integer setting between 17~30, only treat its integer part, such as 24.5, it will be treated as 24  For upper side unit systems: be rounded to 2 decimal places

On-line On/Off

NO.					
1	On-line state	nvoOnState	SNVT_state_64	0: Not on-line 1: Oline-n	The front 32 sets, separately represents the on-line state of air conditioners with 0~31 addresses
2	On/Off state	nvoRunState	SNVT_state_64	0: OFF 1: ON	The front 32 sets, separately represents the On/ Off state of air conditioners with 0~31 addresses

(n: 1~32:

: 32~63)

NO.					
1	nviSetWorkMode[n]	SNVT_hvac_mode		HVAC_AUTO=0 Initial value HVAC_HEAT =1 Heat Mode HVAC_COOL=3 Cool Mode HVAC_FAN ONLY=9 Fan only Mode HVAC_OFF=6 OFF Mode  * Beside the above value setting, the air conditioner will respond as the cool mode\low fan and 24°	
2	nviSetFanSpeed[n]	SNVT_switch		LonMarker NLUtil Node Utility Decimal system Hexadecimal system 10.0 1 LOW 14 01 LOW 20.0 1 MED 28 01 MED 40.0 1 HIGH 50 01 HIGH 100.0 1 AUTO C8 01 AUTO  * Do not suggest setting other value except the above value setting.	
3	nviSetTemp[n]	SNVT_temp_p		LonMarker NLUtil Node Utility Decimal system Hexadecimal system 17.00=17C 06 A4 18.00=18C 07 08 19..=19C 07 6C 20..=20C 07 D0 21..=21C 08 34 22..=22C 08 98 23..=23C 08 FC 24..=24C 09 60 25..=25C 09 C4 26..=26C 0A 28 27..=27C 0A 8C 28..=28C 0A F0 29..=29C 0B 54 30..=30C 0B B8  For air conditioner:less than 17, then will be treated as 17;larger than 30, then will be treated as 30;non-integer setting between 17~30, only treat its integer part, such as 24.5, it will be treated as 24  For upper side unit systems: be rounded to 2 decimal places	Initial value=24C

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(n: 1~32:

: 32~63)

NO.					
1	nvoSetTemp[n]	SNVT_temp_p	17.00=17C 19.00=19C 21.00=21C 23.00=23C 25.00=25C 27.00=27C 29.00=29C	18.00=18C 20.00=20C 22.00=22C 24.00=24C 26.00=26C 28.00=28C 30.00=30C	Display the setting temperature
2	[n[nvoIndoorTemp	SNVT_temp_p	17.00=17C 19.00=19C 21.00=21C 23.00=23C 25.00=25C 27.00=27C 29.00=29C	18.00=18C 20.00=20C 22.00=22C 24.00=24C 26.00=26C 28.00=28C 30.00=30C	Display indoor temperature
3	[n[nvoWorkState	1z_state_SNVT	Bit0 Phase error or no phase Bit1 Communication error Bit2 T1 sensor error Bit3 T2 sensor error Bit4 T2B sensor error Bit5 T3 or T4 or digital compressor discharge temperature sensor error Bit6 Zero crossing detection error Bit7 EEPROM error Bit8 Fan speed detection out of control Bit9 Comm. error(main board and display board) Bit10 Compressor over current (4 times) Bit11 Inverter module protection Bit12 Fresh error Bit13 Outdoor unit error protection Bit14 Water level detection error Bit15 Other errors ..... Bit48 Evaporator temperature protection Bit49 Anti-cold air or defrosting protection	Bit 50 Condenser high temperature protection Bit 51 Compressor temperature protection Bit 52 Discharge pipe temperature protection Bit 53 Discharge high pressure protection Bit 54 Discharge low pressure protection Bit 55 Power over voltage protection sBit 6 Compressor over current Bit57 Reserve, stay 0 Bit58 Reserve, stay 0 Bit59 Reserve, stay 0 Bit60 Reserve, stay 0 Bit61 Reserve, stay 0 Bit62 Reserve, stay 0 Bit63 Other errors <b>* Other positions are default to be 0</b>	0~15 positions means error state 48~63 positions means protection state
4	NvoWork n[ModeFan[	status_hvac_SNVT	MODE HVAC_AUTO Initial value HVAC_HEAT Heat Mode HVAC_COOL Cool Mode HVAC_FAN ONLY Fan only Mode HVAC_OFF OFF Mode	Fan_output 0.005 HIGH 0.010 MED 0.020 LOW 0.000 AUTO	Display the operating mode, indoor fan and communication quality, mode is applied to the operating mode, fan_output is applied to fan state, in_alarm is applied to the communication quality
		In_alarm	0 Communication success 1 Communication consequential failure 1 time 2 Communication consequential failure 2 times 3 Communication consequential failure 3 times 4 Communication consequential failure 4 times 5 Communication consequential failure 5 times 6 Communication consequential failure 6 times 7 Communication consequential failure 7 times  Communication consequential failure 7 times, the value 1 will re-calculate until communication success, and then this value will be zero;		