

◆ Technical Data:

Model: HC-M-D0808.64.1E

GENERAL SPECIFICATIONS

Timers: 2048

Counters: 2048

Function Blocks: 2048

Operation temp.: -20°C ~ +55°C

Storage: -40°C ~ +70°C

Protection: IP20 (Non-waterproof)

RTC accuracy : MAX ±2S/day

RTC Backup at 25 °C: 20 days

Program and settings Backup: 10 years

Data Power-off retentivity: 10 years

Modify parameters via keypad LCD: yes

Dimensions: 155*118*61 (Unit: mm)

Certificate: CE

Installation: 35-DIN rail or screw for installation

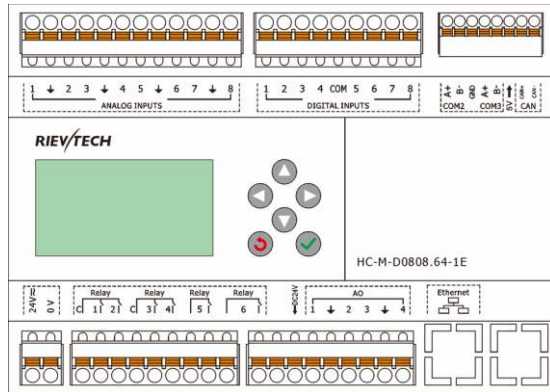
Supported programming language: FBD

Expansion capacity: 16 modules (HVAC Series Extension)

Password protection: 4-digit number password protection or disable program upload function

Communication interface: COM0 (Type-C USB port), COM2 (RS485), COM3 (RS485), Ethernet.

Communication protocol: Modbus RTU/ASCII, Modbus TCP, BACNET MSTP, BACNET IP



Technical Index

Power supply:	
Nominal voltage (not insulated)	AC/DC 24V
Operating limits	AC/DC 24V (±20%)
Immunity from micro power cuts	Typ. 300ms
Input parameters:	
Input No	16(AI1-AI8, DI1-DI8)
Digital input	8(DI1-DI8)
Analogue input	AI1-AI8: 0: Voltage (0--10V) 1: Current (0--20mA) 2: PT1000 (-50...200°C) 3: Ni1000 (-50...180°C) 4: NTC 10K B3435 (-40...150°C) 5: NTC 10K B3950 (-40...150°C) 6: Potential-free contacts (AI1...AI8 is mapped to DI9...DIG)

	(Switch on the programming software)
Analog inputs (AI1-AI8): PT1000	
Measuring range	-50°C to 200°C
Resolution	0.1°C
Measurement error	±0.5°C
Cable length	10m max. shielded and twisted
Analog inputs (AI1-AI8): Ni1000	
Measuring range	-50°C to 180°C
Resolution	0.1°C
Measurement error	±0.5°C
Cable length	10m max. shielded and twisted
Analog inputs (AI1-AI8): NTC 10K B3435	
Measuring range	-40°C to 150°C R25=10KΩ +-1% B25/85 = 3435K +-1%
Resolution	-40°C~99°C: 0.1°C 100°C~150°C: 0.5°C
Measurement error	-40°C~-10°C: ±2°C -9°C~119°C: ±1°C 120°C~150°C: ±1.5°C
Cable length	10m max. shielded and twisted
Analog inputs (AI1-AI8): NTC 10K B3950	
Measuring range	-40°C to 150°C R25=10KΩ +-1% B25/50 = 3950K +-1%
Resolution	-40°C~99°C: 0.1°C 100°C~150°C: 0.5°C
Measurement error	-40°C~-10°C: ±2°C -9°C~119°C: ±1°C 120°C~150°C: ±1.5°C
Cable length	10m max. shielded and twisted
Analog inputs (AI1-AI8): Voltage (0...10V)	
Measurement range	DC 0---10V
Input impedance	Min, 10KΩ; Max. 14KΩ
Input voltage	15 V DC max
Resolution	10bit ,0.01V
Measurement error	± 0.1V
Isolation between analog channel and power supply	None
Cable length	10 m max. shielded and twisted
Analog inputs (AI1-AI8): Current (0...20mA)	
Analogue signal	0....20mA current
Input impedance	249Ω
Resolution	0.02mA
Measurement error	±0.3mA

Cycle time for analog value generation	Typ. 300 ms
Protection against polarity inversions	yes
Overtoltage protection	Yes, if the input voltage is >7.5V, this one is automatically switched on 0--10V configuration
Isolation between power supply and inputs	No
Cable length	<=30M with shielded twisted cable (sensor not isolated)
Digital input (DI1-DI8)	
Input voltage	AC/DC 0~24V
Number of high-speed inputs	0
Output	
Analog output AQ1-AQ4: 0...10V/0...5V/0...20mA/4...20mA	
Output No	4
Output signal	0...10V/0...5V/0...20mA/4...20mA (Switch on the programming software)
Internal value and signal relationship	$(0...1000) = (0...10V) = (0...5V) = (0...20mA) = (4...20mA)$
Resolution	0.01V / 0.02mA
Accuracy at 25 °C	0.02V / 0.05mA
5A Relay 4 outputs (Q1-Q4)	
Safety certified load (resistive)	5A 250V AC
Min switching load	6V 1A
Electrical durability Expectancy	10 ⁵ Operations at Rated Resistive Load
Mechanical life	10 ⁷ Operations at No Load condition
Response time	Operate Time: 15 mSec. Max. Release Time: 10 mSec. Max.
Built-in protections	Against short-circuits: None Against over-voltages and overloads: None
10A Relay 2 outputs (Q5-Q6)	
Safety certified load (resistive)	10A 250V AC
Min switching load	6V 1A
Electrical durability Expectancy	10 ⁵ Operations at Rated Resistive Load
Mechanical life	10 ⁷ Operations at No Load condition
Response time	Operate Time: 15 mSec. Max. Release Time: 10 mSec. Max.
Built-in protections	Against short-circuits: None Against over-voltages and overloads: None
Sensor power supply	
DC 5V	Rated current: 30mA, Accuracy: ±10%, Isolation protection: Yes
DC 24V	Rated current: 30mA, Accuracy: ±10%, Isolation protection: No

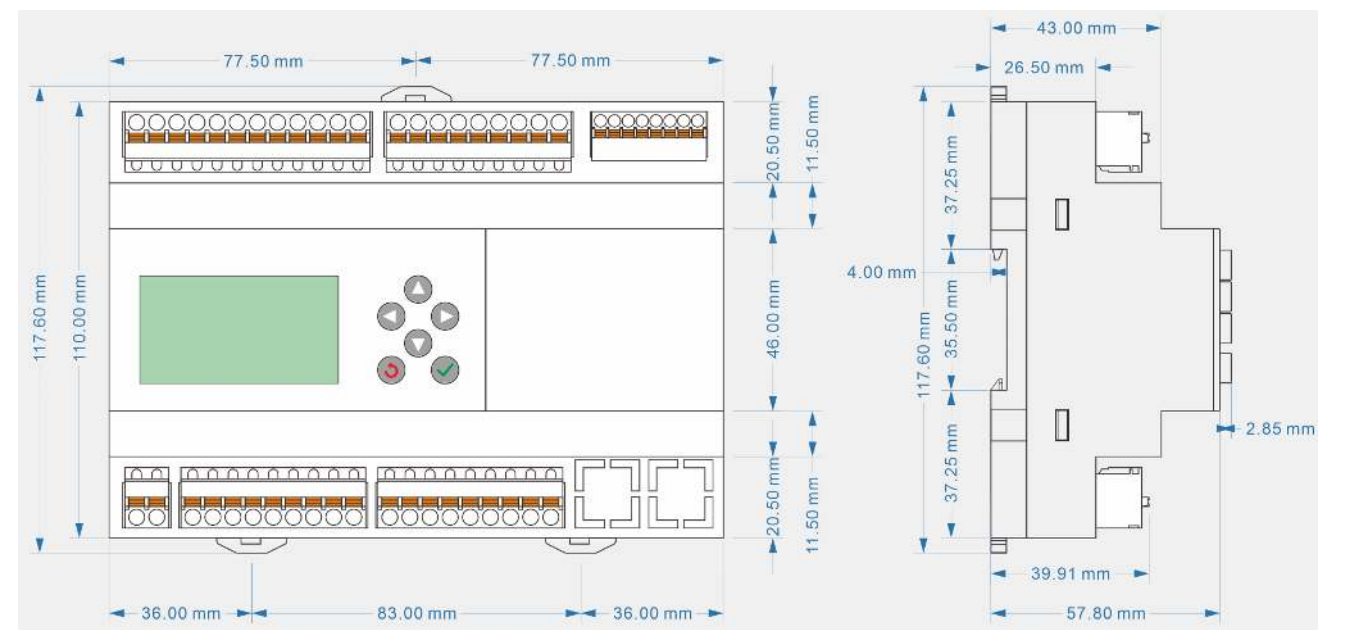
Other parameter	
Weight	Approx.400g

Weight

Approx.400g

Installation Dimensions & Wiring Dimensions

Din-Rail Mounting:



Wall Mounting:

