

NEW

High Speed Digital Meter Relay AMH-763



Input Specification

Range	Measuring Range	Display	Input Impedance	Maximum Allowable Input Value
0~1	±1VDC	OFFSET	1MΩ	±250V
0~10	±10VDC	±99999		
1~5	1~5VDC (±5V)	FULLSCALE	50Ω	±70mA
4~20	4~20mADC	±99999		

General Specifications

Operation method	ΔΣ method
Input Configuration	Single Ended
Resolution	±99999(Voltage Input) 99999 (current input)
No. of Input	2ch input (Ach,Bch) Between A-Bch is non-isolated
Sampling Speed	1 times/sec~4000times /sec (1ch,2ch)
Accuracy	±0.1%FS (23°C±5°C,35~85%RH)
Input Computation	Ach,Bch,K-A,A+B,A-B,K-(A+B) [(A-B)/:B:] × 1000, (B/A-1) × 1000 *K is the available setting value.
Main Display Part	2 colors (Red/Green) 7 segment LED
Sub Display	Character height 8mm Green 7 segment LED character height 14.2mm
Display Update Cycle	1,2,10,20 times/minute
Comparison Purpose	Comparison output to the present Value of 1 ch Comparison output to the present Value of 2 ch
Comparison Result	HH,HI,GO,LO,LL (5 points)
Setup Method	Upper limit (2 points), (HH, HI) Lower limit(2 points),(LO,LL) No comparison conditions
Hysteresis	4 points independence
Relay Output	•contact volume 1a contact AC250V /DC30V1A (Resistive load) •Electrical life 50,000 times (Rated load)
Photocoupler Output	Output rating DC30V 20mA(MAX) Output saturated voltage Less than output saturated voltage 1.2V
Power Supply	AC100V~240V±10% (50/60Hz)
Consumed Power	MAX 20VA
External Dimension	96mm(W) × 48mm(H) × 144.5mm(D) *without BCD output 96mm(W) × 48mm(H) × 147.0mm(D) *with BCD output
Weight(net)	Approx.400g
Dielectric Voltage	Power supply terminal/input terminal Each output terminal Transmission, control input Betweens of terminal AC1500V per minute E terminal/ power supply terminal Betweens of input terminal AC500V per minute Input terminal/ each output terminal Transmission, control input Betweens of control input terminal AC500V per minute
Pairing Vibration	Number of vibration 10~55Hz Half amplitude 0.15mmX,Y,Z Each direction 5min × 10 sweepage
Sensor Power Supply	DC24V±10% 40mA (Less than ripple 100mVp-p)
Memory Backup	E2PROM write in times: 100,000 times
Resistive Insulation	Betweens of above mentioned terminal DC500V More than 100MΩ

Features

- USB connection to PC(Optional)
- 5 digits display (±99999)
- Sampling speed 4000 times/sec
- BCD, RS232C, RS485 output (Option)
- Excitation supply 24VDC ±10% 40mA

Output Specification

BCD Output (Isolated input (Lo))

Connector : MIL type 34 pin connector (pressure welding standard attachment)
Output format: BCD code, Binary code

Output : BCD signal, Printing command signal (PC Polarity (POL) : output of minus

Control input Output allowance (ENABLE)
Each output will be Off when the ENABLE and COM short.
(Open collector: transistor "OFF", TTL: high impedance)
ON voltage: 0~0.8V, OFF voltage : 3~5V
Input electric current : Less than -0.5mA

NPN open collector output DC30V10mA(MAX) output saturation volt: Less than 1.2V

TTL output Positive logic TTL level (CMOS compatible)
Fanout 2

Resolution Output allowance (ENABLE)

Analog output (isolated input)

Output range 0~10V, 1~5V, 4~20mA

Accuracy ±0.5%FS(23°C±5°C)

Temperature coefficient Less than 0.02%FS/°C

Resolution 0~10V output Approx.50000 count

1~5V output Approx.20000 count

4~20mA output Approx.40000 count

Allowable load resistance More than 10kΩ
(0~10V , 1~5V output)
Less than 500 Ω
(4~20mA output)

RS232C communication (isolated input)

Connector D-SUB 9 pin

Synchronization scheme Start-stop synchronization scheme

Transmission speed 9600, 19200, 38400bps

Data bit length 7, 8bit

Stop bit length 1, 2bit

Parity Even number, odd number, nothing

RS-485 communication (isolated input)

Synchronization scheme Start-stop synchronization scheme

Transmission speed 9600, 19200, 38400bps

Stop bit length 1, 2 bit

Parity Even number, odd number, nothing

Error detection BCC

Number of connection Maximum 31machines

Line length Maximum 500m at total

● USB communication (isolated in)

Operating as virtual COM port
USB interface specification

Corresponding OS

Synchronization scheme

Transmission speed

Data bit length

Stop bit length

Parity

Rev1.1/2.0 full speed forwarding B connector

Windows XP SP2, Windows Vista (32bit)

©USB transmission virtual COM port Specification

Start-stop synchronization scheme

9600,19200,38400bps

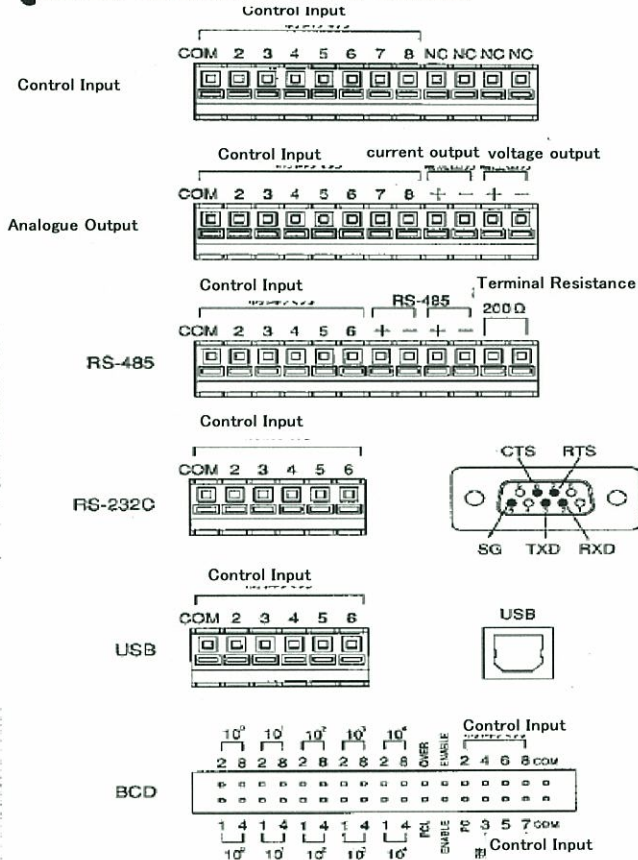
7, 8 bit

1, 2 bit

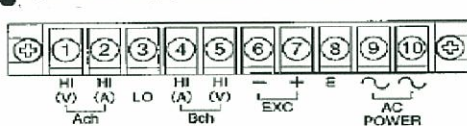
Even number, odd number, nothing

■ Connection Diagram

● Input and Output (sublevel various connector)



● Input Power Supply (bottom screw terminal)



● Adjustment Contact bonding terminal dimension



■ Ordering Code

AMH-763-VA-□-□-□

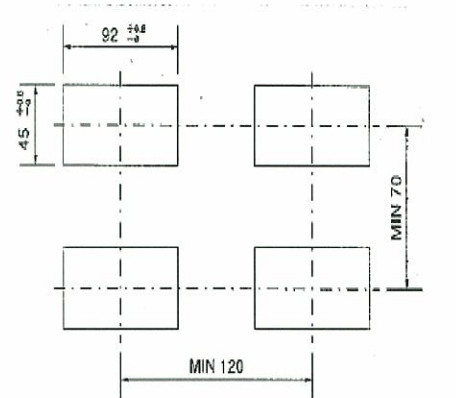
Comparative Output. 1:Relay output
2:Photocoupler output

Output 1: None
2:BCD output(open collector)
3:BCD output(TTL)
4:RS-232C
5:RS-485
6:USB
7: Analog output

Power Supply 1AC100~240V

Input DC voltage & current
(±10V,1~5V,±1V,4~20mA)

■ Panel cut



*Panel thickness 0.8 to 5mm

■ Dimensions

