HUMAN-MACHINE INTERFACE

SPECIFICATION

Model Type	HM-680		HM-650		HM-651			
	HM-680S	HM-680A	HM-650S	HM-650A	HM-680S	HM-680A		
Picture	ERRE COLUMN TO THE COLUMN TWO IS NOT THE COLUMN TO THE COLUMN TWO IS NOT THE COLUMN TWO	TOTAL TOTAL CO.			HM-651 A OFF OT A 123455789	8 8 8 8 8		
Operating Power	DC24 V (±20%)							
Power Consumption	20W	(Max.)	15W (Max.)					
Noise Immunity	IEC 1000-4-4 (4KV.100KHz)							
Voltage Endurance	AC 2000V 10mA / 1Minute							
Insulation Resistance	50MΩ (DC500V)							
Vibration Resistance	10 ~ 50 Hz (X,Y,Z direction; 2G; 30 minutes)							
Ratings	IP 65, Dust-proof & Drip-proof Design (Waterproof O-ring)							
Certification	CE							
Operating Temp.	0°C ~ +60°C (32°F ~ 140°F)							
Storage Temp.	-10°C ~ +60°C (14°F ~ 140°F)							
Relative Humidity	10 ~ 90% RH, Non-condensing							
Cooling Method	Natural Cooling							
External Dimension	294(W)X222(H)×54(D) mm		200 (W) × 150 (H) × 52(H) × 52(D) mn	52(D) mm		
Cut-out Dimension	283.0±0.5(W)×211.0 ±0.5(H)mm		186.0±0.5(W) × 136.0±0.5(H) mm					
Weight	Approx. 1,820g		Approx. 850g					
**COM3 will be enabled only when RTS/CTS handshaking at COM2 is set at Disabled.								

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Picture	AREA INTO CONTROL OF C	The state of the s		B B B B B B B B B B B B B B B B B B B	123456789			
System	Embedded Real Time OS							
CPU	32-bit RISC Microcontroller / 200MHZ							
DRAM	32 M Bytes SDRAM		16 M Bytes SDRAM		8 M Bytes SDRAM			
Flash Memory	7M Bytes ROM		3M Bytes ROM		3M Bytes ROM			
Power Failure	512K Bytes	(Rechargeable	256K Bytes (Rechargeable Lithium Battery)					
Memory	Lithiur	n Battery)	230 h bytes (he dialgeable Littlium battery)					
LCD Type	10.4 "TFT		5.7"TFT		5.7"STN			
LCD Color	65,536 colors		65,536 colors		16 Grayscale			
LCD Resolution	640×480 pixels / 8×10 ; Text Number: 80×48		320×240 pixels / 8×10; Text Number: 40×24					
LCD Backlight	CCFL with 50,000 hour		LED with 50,000 hour		CCFL with 50,000 hour			
	minimum life span		minimum life span		minimum life span			
Display Range	211.4mm (V	V)×158.4mm(H)	115.2mm (W) ×86.4mm(H)					
Touch Panel/ Resolution	Analog/256(W)×83(H) grids	Analog / 140(W) ×100(H) grids					
Real-time Clock	Built-in							
Function Key		stem Key and 7	6 Keys (1 System Key and 5 User-defining Key)					
Serial Com. Port	COM1 (RS232 /RS485), COM2 /COM3* (RS232 /RS485/RS422)							
USB Client	1 Client Ver. 1.1 Download							
USB Host	Developing							
Ethernet		Developing		Developing	2	Developing		
Sound Output	-	Developing	vez rá	Developing	2 1 - 2	Developing		
SD Card	Developing	Developing	Developing	Developing	7=	Developing		