











1.1. QM3G-FH HMI/PLC All-in-one

Model	QM3G-43FH	QM3G-50FH	QM3G-70FH	QM3G-70KFH	QM3G-100FH
Image					
					
Dimension	134*102*34mm	151*96*36mm	200*146*36mm	226*163*35.6mm	275*194*36mm
Cutout size	120*94mm	143*86mm	192*138mm	217*154mm	262*180mm
Power Consumption	4-6W	5-7W	6-7W	6-7W	6-8W
HMI					
Feature	60K colors resistive touch screen, supports portrait display				
Type	4.3"TFT	5"TFT	7.0"TFT	7.0"TFT	10.1"TFT
Display size	97*56mm	108*65mm	154*87mm	154*87mm	222*125mm
Resolution (pixels)	480*272	800*480	Standard: 800*480 Optional: 1024*600 (Model: QM3G-70HD)	800*480	1024*600
RAM	64MB (HMI when stores historical data, optional ferroelectric is required)				
ROM	NOR Flash 8MB		NOR Flash 16MB		
CPU	32bit CPU 408MHz				
Default	Type-C HMI download port (can download PLC program through the USB penetrating function), RS232 port			Type-B HMI download port (can download PLC program through the USB penetrating function), RS232	
Optional COM port	/		1 RS485 (changed from default RS232)		
Software	Coolmay mView HMI Programming Software				
PLC					
I/O	Max 12DI/12DO		Max 24DI/20DO (16MR, Y20-Y23 fixed as MT)	Max 30DI/30DO (28MR, Y22 and Y23 fixed as MT)	
I/O level	Input: Passive NPN, public terminal isolated Transistor output: Low level NPN, COM connect to negative; Relay output: Normally open dry contact				
DO type and load	Relay MR/MOS tube, MOS tube: 2A/point, 4A/4 point COM, 5A/12 point COM; MR: 2A/point, 5A/12 point COM.		Relay (MR) or transistor (MT, Y0-Y3 are MOS) or mixed (MRT) MOS tube: 2A/point, 4A/4 points COM; MT: 0.5A/point, 0.8A/4 points COM, 1.6A/8 points COM; MR: 2A/point, 4A/4 points COM, 5A/12 points COM.		
High-speed counting	Single phase 6 channel 60KHz, or 2 AB 60KHz + 1 AB 10KHz, or 2 ABZ 60KHz + 1 AB phase 10 KHz				
High-speed pulse	8 channels, Y0-Y3 is 100KHz, Y4-Y7 is 10KHz. High-speed counting + high-speed pulse < 480KHz				
Default programming port	1 TYPE-C, 1 RS232			1 Mini USB, 1 RS232	
Optional COM port	1 RS485 or 2 RS485 COM ports (one of which is changed from the default RS232 port); 1 WIFI (occupy default RS232 port)		1 RS485 or 2 RS485 COM ports (RS485 port on HMI and RS232 on PLC will be unavailable)	1 RS485 or 2 RS485 COM ports (one is changed from the default RS232 port)	
	CAN (2.0A/B) port, Ethernet port, WIFI (will occupy default RS232 port)				
Analog I/O (optional)	Max 4AI/2AO		Max 12AI/8AO	Max 16AI/8AO	
AI type (optional)	Thermocouple E/E_/K/K_/S/S_/T/T_/J/J_/ PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K/ 0~10V/ 0~5V/ 0~20mA/ 4~20mA/ mixed (QM3G-70FH/70HD/70KFH/100FH optional -5V~5V and -10V~10V)				
AO type (optional)	0~10V /0~5V/ 0~20mA/ 4~20mA/ mixed		0~10V /0~5V/ 0~20mA/ 4~20mA/ mixed/ -5~5V/ -10~10V (2AO for 1 minus voltage)		
Software	Compatible with GX Developer8.86 and GX WORKS 2				
Suggested models: QM3G-43FH/50FH-16MR/24MR/24MT(-4AD2DA-485P/232H) QM3G-70FH/HD-16MR/24MR(-12AD8DA-485P/232H); QM3G-70FH/HD-24MT/44MT/44MRT(-8AD6DA-485P/232H) QM3G-70KFH-38MR/38MT(-16AD8DA-485P/232H) QM3G-70KFH-60MRT/60MT(-5AD2DA-485P/232H) QM3G-100FH-24MR/38MT/44MRT/44MT(-16AD8DA-485P/232H) QM3G-100FH-60MRT/60MT(-5AD2DA-485P/232H) * If 30DI/30DO for QM3G-70KFH/100FH, max support 5AI/2AO. If 24DI/20DO, max 16AI/8AO. Detailed info. refer to: " Coolmay QM3G-FH All-in-One User Manual ", " Coolmay CX3G/FX3GC PLC Programming Manual ", " Coolmay TK HMI User Manual "					