

▷ Protection Relay (PAC - P200)

- PAC-P200 is a multi function digital protection and control unit for feeder and motor. This smart device satisfies KEMC-1120(2008.6.26), IEC-60255, and CE standards. and also PAC-P200 can be applied any kind of grounding system.
- 128 * 240 Graphic LCD display
- 20 * LED, 13 * keypad
- Easy-to-use logic editor for sequence logic composition
- Communication protocol
Front : RS-232 port 1ea
Rear RS -232 port 1ea + RS485 port 1ea
- Supported protocol
Modbus RTU(TCP/IP), DNP3.0(TCP/IP),
IEC 60870-5-103(TCP/IP)



Item			Specification		
Winding			3P3W, 3P4W		
Rating	Frequency		50 / 60Hz		
	Control source		AC 110~220V(50 / 60Hz) or DC 80 ~ 300V, DC 19 ~ 130V(Optional)		
	Power consumption		Normal status : less than 20W, Operating status : less than 30W		
	Voltage	PT	63.5V or 110V or 190V(50.0 ~ 250.0)		
		GPT	190V (50.0 ~ 250.0)		
	Current	CT	5A / 1(Optional)		
		ZCT	1.5mA		
	Burden	Voltage	less than 0.3VA/Phase		
Current		less than 0.3VA/Phase			
Contact	Input Voltage		Max. DC 250V		
	Input(4ea)	ON/OFF threshold		DC 19~130V ON : ≥19V, Off : ≤14V	DC 80~130V ON : ≥80V, Off : ≤60V
		COS detecting time		less than 10msec	
	Output(12ea)	Trip	Circuit	2ea / NO	
			Making	AC 250V, 16A Continuous	DC 125V, 30A, 0.5sec resistive
			Breaking	AC 250V, 5A, 0.1(PF)	DC 125V, 5A, L/R 25msec
		Signal	circuit	8ea / NO, 2ea / NC	
			Making	AC 250V, 6A, Continuous	DC 125V, 6A, 0.3sec resistive
Breaking			AC 250V, 1A, 0.1(PF)	DC 125V, 1A, L/R 25msec	
Measurement			Voltage, current, Frequency, PF, Active/Reactive/VI power, Wh/Varh/Vlh, Sequence voltage/current, True RMS, THD, 2nd harmonic current, Demand, Thermal		
Communication	RS - 232C		38400bps(fixed), 8bit/No parity/1 Stop, Modbus RTU protocol		
	RS-485	Basic	Optical isolated port, 300~38400bps, 8bit/No parity/1 Stop, Modbus RTU, DNP3.0, IEC 60870-5-103		
		Option	Modbus TCP/IP, DNP3.0 TCP/IP, optical port		
Enclosure	construct		Draw-out type		
	Material		Steel(Fe)		
	Weight		4.4kg		
	Dimension (W * H *D)		280mm * 178mm * 160mm		
	Terminal specification		U(spade)/Ring rug, Inside dia. 5mm, Max. outside dia. : 12mm		
Environment	specification		IEC 60068-2-1 /2		
	Service temperature range		-25 ~ 70℃		
	Storage temperature range		-30 ~ 75℃		
	Humidity		RH 30 ~ 95%		
	Altitude		Max. 1000m		
Type	Isolation resistance		DC 500V, 100MΩ	KEMC-1120	
	Dielectric test voltage		2kV, 1min	IEC 60255-5, ANSI-IEEE 37.90.0	
	Impulse test voltage		5kV, 1.2/50μs	IEC 60255-5, ANSI-IEEE 37.90.0	
	over load duration	Current circuit		Rated current * 3 : continuous, * 20 : 4sec, * 100 : 1sec	
		voltage circuit		~ 450V : continuous	
	EMC	1 MHz Burst		2.5kV, 1MHz	IEC 60255-22-1, ANSI/IEEE C37.90.1
		Compound surge		4kV, 1.2 * 50μs	IEC 60255-22-5 class IV
		Fast transients		4kV, 5.0kHz, 5/50ns	IEC 60255-22-4 class IV
		Electrostatic discharge		8kV(Air), 6kV(Contact)	IEC 60255-22-2 class III
		Radio Frequency Interference		10V/m, 30 ~ 1000MHz	IEC 60255-22-3 class III
		Radio Frequency conductive susceptibility		10V, 150kHz ~ 80MHz	IEC 61000-4-6 class
	Vibration	Reponse	10 ~ 150Hz, 0.035mm, 8min		IEC 60255-21-1 class II
		Duration	10 ~ 150Hz, 1G, 160min		
	Shock	Reponse	5G, 11ms, 3times		IEC 60255-21-2 class II
		Duration	15G, 11ms, 3times		
Bump		10G, 16ms, 1000times			
Seismic test		1 ~ 35Hz, 3.5mm, 10min		IEC 60255-21-2 class I	
Applied specification			IEC 60255, IEC 61000-4-6, KEMC-1120		