

# SPECIFICATION



	Part Number	GK05	GK10	GK20
Display	Panel type	Key Terminal	Key Terminal	Key Terminal
	Display type	LCD STN mono (Backlight)	LCD STN mono (Backlight)	LCD STN mono (Backlight)
	Method of representation	Text	Text	Text
	Display size	2 lines x 16 characters	2 lines x 20 characters	4 lines x 20 characters
	Text height (mm)	5	5	5
	Display contrast setting	by potentiometer	by potentiometer	by potentiometer
	Back light life	LED, 50,000hr (at +25°C)	LED, 50,000hr (at +25°C)	LED, 50,000hr (at +25°C)
	LEDs	-	-	5 (two colours)
Functions / Options	Keyboard	4 control keys	Numeric keyboard	Alpha numeric keyboard
	Function keys	4	3 (with individual text)	5 (with individual text)
	Buzzer	-	-	-
	Alarm management	-	-	1 group
	Time channels	-	Yes	Yes
	Real-time clock	-	Yes	Yes
	Trend graphs	-	-	-
	Recipe handler	-	Yes	Yes
	Printouts / Reports	-	Report printing	Report and alarm printing
	Password protection	-	8 levels	8 levels
	No. of expansion slots	-	-	-
	Memory for applications	16kB Flash	64kB Flash	64kB Flash
	Expansion memory (optional)	-	-	-
	Communication ports	1 Port (RS422 (Option: RS485) or RS232C)	2 Ports (RS422 (Option: RS485) and RS232C)	2 Ports (RS422 (Option: RS485) und RS232C)
	Compatible PLCs	Matsushita Electric Works, Allen-Bradley, Omron, Siemens, Telemecanique	Matsushita Electric Works, Allen-Bradley, Omron, Siemens, Telemecanique	Matsushita Electric Works, Allen-Bradley, Omron, Siemens, Telemecanique
	"Pass-through" function	-	Yes (MEWTOCOL)	Ja (MEWTOCOL)
	Networking (optional)	-	-	-
	Parallel printer interface	-	-	-
General	Rated operating voltage	+5VDC or +24VDC	+5VDC or +24VDC	+24VDC
	Operating voltage range	4.75 to 5.25 or 20 to 30VDC	4.75 to 5.25 or 20 to 30VDC	20 to 30VDC
	Rated current consumption	200mA or less (at 5V)	200mA or less (at 5V)	150mA or less (at 24V)
	Ambient temperature	0 to +50°C	0 to +50°C	0 to +50°C
	Storage temperature	-20 to +70°C	-20 to +70°C	-20 to +70°C
	Ambient humidity	5 to 85% (non-condensing)	5 to 85% (non-condensing)	5 to 85% (non-condensing)
	Storage humidity	5 to 95% (non-condensing)	5 to 95% (non-condensing)	5 to 95% (non-condensing)
	Degree of protection (front)	IP65, Nema 4	IP65, Nema 4	IP65, Nema 4
	Breakdown voltage	500VAC, 1 min. betw. DC-T. and FG	500VAC, 1 min. betw. DC-T. and FG	500VAC, 1 min. betw. DC-T. and FG
	Insulation resistance	100MΩ or more betw. ext. Term. and FG	100MΩ or more betw. ext. Term. and FG	100MΩ or more betw. ext. Term. and FG
	Vibration resistance	conform to IEC 68-2-6 (test Fc.), and IEC 68-2-64 (test Fh.)	conform to IEC 68-2-6 (test Fc.), and IEC 68-2-64 (test Fh.)	conform to IEC 68-2-6 (test Fc.), and IEC 68-2-64 (test Fh.)
	EMC	conform to EN 50081-1, EN 61000-6-2	conform to EN 50081-1, EN 61000-6-2	conform EN 50081-1, EN 50082-2
	LVD	not needed	not needed	not needed
	UL / cUL	UL / cUL 508, cUL 1604 Class I / Div. 2	UL / cUL 508, cUL 1604 Class I / Div. 2	UL / cUL 508, cUL 1604 Class I / Div. 2
	Dimensions W x H x D (mm)	104 x 69 x 38	142 x 90 x 29	147 x 163,5 x 38
Weight (kg)	0.2kg	0.4kg	0.7kg	



GK30	GK60	GK70	GK90
Key Terminal	Key Terminal	Key Terminal	Key Terminal
LCD STN mono (Backlight)	LCD STN mono (Backlight)	LCD STN colour (Backlight)	LCD TFT colour (Backlight)
Graphics + Text	Graphics + Text	Graphics + Text	Graphics + Text
240 x 64 pixel	240 x 128 pixel	320 x 240 pixel	640 x 480 pixel
variable	variable	variable	variable
by setup menu	by setup menu	by setup menu	auto adjustment
LED, 50,000hr (at +25°C)	CCFL, 15,000hr (at +25°C)	CCFL, 25,000hr (at +25°C)	CCFL, 50,000hr (at +25°C)
16 (two colours)	16 (two colours)	14 (two colours)	20 (two colours)
Alpha numeric keyboard	Alpha numeric keyboard	Alpha numeric keyboard	Alpha numeric keyboard
8 (with individual text)	16 (8 with individual text)	16 (8 with individual text)	22 (10 with individual text)
Yes	Yes	Yes	Yes
4 groups	4 groups	16 groups	16 groups
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Run time	Run time, history	Run time, history	Run time, history
Yes	Yes	Yes	Yes
Report and alarm printing	Report and alarm printing	Report and alarm printing	Report and alarm printing
8 levels	8 levels	8 levels	8 levels
1	1	2	2
128kB Flash	256kB Flash	400kB Flash	2MB Flash
PCMCIA (4MB, 8MB)	PCMCIA (4MB, 8MB)	PCMCIA (4MB, 8MB)	PCMCIA (4MB, 8MB)
2 Ports (RS422 (Option: RS485) and RS232C)	2 Ports (RS422 (Option: RS485) and RS232C)	2 Ports (RS422 (Option: RS485) and RS232C)	2 Ports (RS422 (Option: RS485) and RS232C)
Matsushita Electric Works, Allen-Bradley, Omron, Siemens, Telemecanique	Matsushita Electric Works, Allen-Bradley, Omron, Siemens, Telemecanique	Matsushita Electric Works, Allen-Bradley, Omron, Siemens, Telemecanique	Matsushita Electric Works, Allen-Bradley, Omron, Siemens, Telemecanique
Yes (MEWTOCOL)	Yes (MEWTOCOL)	Yes (MEWTOCOL)	Yes (MEWTOCOL)
PROFIBUS (DP) or Ethernet	PROFIBUS (DP) or Ethernet	PROFIBUS (DP) or Ethernet	PROFIBUS (DP) or Ethernet
(optional)	(optional)	(optional)	(optional)
+24VDC	+24VDC	+24VDC	230VAC
20 to 30VDC	20 to 30VDC	20 to 30VDC	100 to 240VAC
450mA or less (24V)	450mA or less (24V)	550mA or less (24V)	350mA or less (at 100V)
0 to +50°C	0 to +50°C	0 to +50°C	0 to +50°C
-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C
5 to 85% (non-condensing)	5 to 85% (non-condensing)	5 to 85% (non-condensing)	5 to 85% (non-condensing)
5 to 95% (non-condensing)	5 to 95% (non-condensing)	5 to 95% (non-condensing)	5 to 95% (non-condensing)
IP65, Nema 4	IP65, Nema 4	IP65, Nema 4	IP65, Nema 4
500VAC, 1 min. betw. DC-T. and FG	500VAC, 1 min. betw. DC-T. and FG	500VAC, 1 min. betw. DC-T. and FG	1500VAC, 1 min. betw. AC-T and FG
100MΩ or more betw. ext. Term. and FG	100MΩ or more betw. ext. Term. and FG	100MΩ or more betw. ext. Term. and FG	100MΩ or more betw. ext. Term. and FG
conform to IEC 68-2-6 (test Fc.), and IEC 68-2-64 (test Fh.)	conform to IEC 68-2-6 (test Fc.), and IEC 68-2-64 (test Fh.)	conform to IEC 68-2-6 (test Fc.), and IEC 68-2-64 (test Fh.)	conform to IEC 68-2-6 (test Fc.), and IEC 68-2-64 (test Fh.)
conform EN 50081-1, EN 50082-2	conform EN 50081-1, EN 50082-2	conform EN 50081-1, EN 50082-2	conform EN 50081-1, EN 50082-2
not needed	not needed	not needed	not needed
UL / cUL 508, cUL 1604 Class I / Div. 2	UL / cUL 508, cUL 1604 Class I / Div. 2	UL / cUL 508, cUL 1604 Class I / Div. 2	UL / cUL 508, cUL 1604 Class I / Div. 2
212 x 198 x 69	214 x 232 x 87	276 x 198 x 87	367 x 274 x 87
1.5kg	1.6kg	1.7kg	3.5kg

SPECIFICATION

DESCRIPTION	PART-NO.:
GK05 operator terminal, LCD, 2 x 16-character display	GK05
GK10 operator terminal, LCD, 2 x 20-character display	GK10
GK20 operator terminal, LCD, 4 x 20-character display	GK20
GK30 operator terminal, LCD, 240 x 64 pixel, text & graphics	GK30
GK60 operator terminal, LCD, 240 x 128 pixel, text & graphics	GK60
GK70 operator terminal, LCD colour display, 320 x 240 pixel, text & graphics	GK70
GK90 operator terminal, TFT VGA colour display, 640 x 480 pixel, text & graphics	GK90
GKWIN programming software with English manual	GK-WINEN2
GKWIN programming software with German manual	GK-WINDE2
Programming cable from GK terminal RS232 to PC RS232	GK-CAB-P2
Programming cable from GK terminal RS422 to PC RS232	GK-CAB-P4
Connecting cable from the FP0/-M/FP2 Tool Port to GK terminal (RS232C)	GK-CAB-CM
Connecting cable from the FP1/-M/FP2/FP10SH COM Port to the GK terminal (RS232C)	GK-CAB-CD
Connecting cable from the FP0 COM Port to GK terminal (RS232C)	GK-CAB-CP
Connecting cable from the FP1 Tool Port to GK terminal (RS422)	GK-CAB-CF
Expansion cards for PROFIBUS DP	GK-IFC-PB
Expansion cards for ETHERNET (Twisted Pair)	GK-IFC-ET
Expansion cards for ETHERNET (Coax)	GK-IFC-EC
Interface for memory expansion cards	GK-IFC-MC
Memory expansion cards 4MB	GK-MC-4M
Memory expansion cards 8MB	GK-MC-8M

# PART NUMBERS