Panel Indicators

Classification	1/32 DIN Multifunctional Digital Panel Indicator	1/8 DIN Process Indicator	1/8 DIN Temperature Indicator
Model	**K3GN**	**K3MA-J**	**K3MA-L**
Appearance			
Features	• 5 Digit display with programmable display colour • User selectable inputs (Voltage/Current/Frequency) • Easy configuration through panel keys or RS485 comms • Scaling in a wide range of engineering units • Programmable output operation, decimal point pos. setting, zero suppression, average processing	• 5 Digit display with colour change, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range of engineering units • Programmable output operation, decimal point pos. setting, zero suppression, average processing, min/max hold function	• 4 Digit display with colour change, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range of engineering units • Programmable output operation, zero suppression, average processing, min/max hold fucntion
Measuring modes	–	–	–
Model Variations	• DC Voltage/Current, NPN • DC Voltage/Current, PNP	• DC Voltage/Current	• Platinum-resistance or Thermocouple thermometer
Input ranges	• DC Voltage: 0/1..5 V, -5..5 V, -10..10 V • DC Current: 0/4..20 mA • No voltage: 0.05..30.00 Hz • Open collector: 0.1..5000.0 Hz	• DC Voltage: 0/1-5V, -5- 5V, -10- 10 V • DC Current: 0/4-20 mA	• Thermocouples: K, J, T, E, L, U, N, R, S, B • Pt-100 and JPt-100
Indication Accuracy	+/- 0.1% FS max, +/- 1 digit max.	+/- 0.1% FS max, +/- 1 digit max.	+/- 0.5% FS max, +/- 1 digit max.
Outputs	• Dual Relay SPST-NO 1A at 30 VDC • Triple PNP or NPN; 50 mA 24 VDC	• Dual Relay SPST-NO 5A at 30 VDC	• 1 Relay 5 A at 30 VDC
Sample Rate	4 Hz	4 Hz	2 Hz
Communication	RS-485	–	–
Supply Voltage	24 VDC (85..110% of rated voltage)	100..240 VAC and 24 VAC/VDC (85..110% of rated voltage)	100..240 VAC and 24 VAC/VDC (85..110% of rated voltage)
IP grade	IP66	IP66	IP66
Dimensions (mm)	48 x 24 x 80 (W x H x D)	96 x 48 x 85 (W x H x D)	96 x 48 x 85 (W x H x D)
Approvals	UL, CSA, IEC, CE	UL, CE	UL, CE
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1/8 DIN Frequency/Rate meter	1/8 DIN Process Indicator	1/8 DIN Temperature Indicator	1/8 DIN Frequency/Rate meter (single or dual input)
K3MA-F	**K3NX**	**K3NH**	**K3NR**
			
• 5 Digit display with colour change, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range of engineering units • Programmable output operation, decimal point pos. setting, zero suppression, average processing, min/max hold function, par. Initialization, start-up compensating time, auto-zero time	• 5 Digit display, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range of engineering units • Programmable output operation, decimal point pos. setting, leading zero suppression, average processing, min/max hold function, start-up compensating time, teaching, security, remote/local processing, field calibration • Sensor power supply (80 mA at 12 VDC)	• 5 Digit display, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range • Programmable output operation, decimal point pos. setting, leading zero suppression, average processing, min/max hold function, auto-zero time, teaching, security, remote/local processing, field calibration, comparative output pattern selection • Sensor power supply (100 mA at 10 VDC)	• 5 Digit display, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range • Programmable output operation, decimal point pos. setting, leading zero suppression, average processing, min/max hold function, start-up compensating time, security, remote/local processing, teaching, comparative output pattern selection, memory power failure • Sensor power supply (80 mA at 12 VDC)
–	–	–	Rotational/circumferential speed, Absolute ratio, Error ratio, Rotational difference, Flow rate ratio, Passing time, Pulse counting
• Rotary Pulse	• Basic model with one process value display • Set value model with 2 displays (PV and SV)	• Basic model with one process value display • Set value model with 2 displays (PV and SV)	• Basic model with one process value display • Set value model with 2 displays (PV and SV)
• No voltage: 0.05..30.00 Hz • Open collector: 0.1..5000.0 Hz	• DC Voltage: +/- 199.99 V, +/- 19.999 V, +/- 1.9999 V, +/- 199.99m V, 1.0000..5.0000 V • DC Current: +/- 199.9 9mA, +/- 19.999 mA, +/- 1.9999 mA, 4.000.. 20.000 mA • AC Voltage: 0.0..400.0 V, 0.00..199.99 V, 0.000..19.999 V, 0.0000..1.9999 V • AC Current: 0.000..10.000 A, 0.0000..1.9999 A, 0.00..199.99 mA, 0.000..19.999 mA	• Thermocouples: K, J, T, E, L, U, N, R, S, B, W, PLII • Pt-100 and JPt-100 • DC Current: 0/4-20 mA • DC Voltage: 0/1..5 V, 0..10 V	• No voltage contact: 30 Hz max. • Voltage pulse: 50 kHz max. • Open collector: 50 kHz max.
+/- 0.1% FS max, +/- 1 digit max.	DC: +/- 0.1..+/- 0.15% FS; AC: +/- 0.1%..+/- 0.5% FS	DC: +/- 0.2% FS max, +/- 1 digit max.	+/- 0.006..0.02% FS (mode dependable)
• Dual Relay SPST-NO 5 A at 30 VDC	• 3 or 5 Relays 5 A at 30 VDC • 5 Transistor (PNP or NPN) 50 mA 12..24 VDC • BCD (5-digit, NPN open collector) • Communications • Lineair (4..20 mA, 1..5 VDC, 1 mV/10 digits, 0..5 VDC, 0..10 VDC)	• 3 or 5 Relays 5 A at 30 VDC • 5 Transistor (PNP or NPN) 50 mA 12..24 VDC • BCD (5-digit, NPN open collector) • Communications • Lineair (4..20 mA, 1..5 VDC, 1 mV/10 digits, 0..5 VDC, 0..10 VDC)	• 3 or 5 Relays 5 A at 30 VDC • 5 Transistor (PNP or NPN) 50 mA 12..24 VDC • BCD (5-digit, NPN open collector) • Communications • Lineair (4..20 mA, 1..5 VDC, 1 mV/10 digits, 0..5 VDC, 0..10 VDC
–	12.5 times/s (50 Hz); 15 times/s (60 Hz)	10 Hz (analog input), 4 Hz: Pt-100 and thermocouple	–
–	RS-232C, RS-422, RS-485	RS-232C, RS-422, RS-485	RS-232C, RS-422, RS-485
100..240 VAC and 24 VAC/VDC (85..110% of rated voltage)	100..240 VAC and 12..24 VAC/VDC (85..110% of rated voltage)	100..240 VAC and 12..24 VAC/VDC (85..110% of rated voltage)	100..240 VAC and 24 VAC/VDC (85..110% of rated voltage)
IP66	IP66	IP66	IP66
96 x 48 x 85 (W x H x D)	96 x 48 x 130 (W x H x D)	96 x 48 x 130 (W x H x D)	96 x 48 x 130 (W x H x D)
UL, CE	UL, CSA, CE	UL, CSA, CE	UL, CSA, CE
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Panel Indicators

Classification	1/8 DIN Weighing Meter	1/8 DIN Period Meter	1/8 DIN Up/Down Counting Meter
Model	**K3NV**	**K3NP**	**K3NC**
Appearance			
Features	• 5 Digit display, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range • Programmable output operation, decimal point pos. setting, leading zero suppression, average processing, min/max hold function, start-up compensating time, auto-zero time, security, remote/local processing, teaching, comparative output pattern selection, tare function • Load cell powersupply (100 mA at 10 VDC)	• 5 Digit display, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range • Programmable output operation, decimal point pos. setting, leading zero suppression, min/max hold function, time unit display, security, remote/local processing, teaching, comparative output pattern selection • Sensor power supply (80 mA at 12 VDC)	• 5 Digit display, 2-colour LEDs (Red and Green) • Front panel key operation and configuration • Scaling in a wide range • Programmable output operation, decimal point pos. setting, leading zero suppression, min/max hold function, counting value reset with front panel keys, security, remote/local processing, teaching, memory power failure, external reset • Sensor power supply (80 mA at 12 VDC)
Measuring modes	–	Passing speed, Cycle, Time difference, Elapsed time, Length measurement, Interval	–
Model Variations	• Basic model with one process value display • Set value model with 2 displays (PV and SV)	• Basic model with one process value display • Set value model with 2 displays (PV and SV)	• Basic model with one process value display • Set value model with 2 displays (PV and SV)
Input ranges	• DC Voltage: 0.00..199.99 mV, 0.000..19.999 mV, +/- 100 mV	• No voltage contact: 30 Hz max. • Voltage pulse: 50 kHz max. • Open collector: 50 kHz max.	• No voltage contact: 30 Hz max. • Voltage pulse: 50 kHz max. • Open collector: 50 kHz max.
Indication Accuracy	+/- 0.1% FS max, +/- 5 digit max.	+/- 0.08% FS max, +/- 1 digit max.	–
Outputs	• 3 or 5 Relays 5 A at 30 VDC • 5 Transistor (PNP or NPN) 50 mA 12..24 VDC • BCD (5-digit, NPN open collector) • Communications • Lineair (4..20 mA, 1..5 VDC, 1 mV/10 digits, 0..5 VDC, 0..10 VDC	• 3 or 5 Relays 5 A at 30 VDC • 5 Transistor (PNP or NPN) 50 mA 12..24 VDC • BCD (5-digit, NPN open collector) • Communications • Lineair (4..20 mA, 1..5 VDC, 1 mV/10 digits, 0..5 VDC, 0..10 VDC)	• 3 or 5 Relays 5 A at 30 VDC • 5 Transistor (PNP or NPN) 50 mA 12..24 VDC • BCD (5-digit, NPN open collector) • Communications • Lineair (4..20 mA, 1..5 VDC, 1 mV/10 digits, 0..5 VDC, 0..10 VDC
Sample Rate	12.5 times/s (50 Hz); 15 times/s (60 Hz)	–	–
Communication	RS-232C, RS-422, RS-485	RS-232C, RS-422, RS-485	RS-232C, RS-422, RS-485
Supply Voltage	100..240 VAC and 12..24 VAC/VDC (85..110% of rated voltage)	100..240 VAC and 12..24 VAC/VDC (85..110% of rated voltage)	100..240 VAC and 12..24 VAC/VDC (85..110% of rated voltage)
IP grade	IP66	IP66	IP66
Dimensions (mm)	96 x 48 x 130 (W x H x D)	96 x 48 x 130 (W x H x D)	96 x 48 x 130 (W x H x D)
Approvals	UL, CSA, CE	UL, CSA, CE	UL, CSA, CE
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1/8 DIN Low Cost Panel Indicator DC input	1/8 DIN Low Cost Panel Indicator AC input	1/32 DIN Panel Indicator DC input
K3TE	**K3TF**	**K3TG**
		
• 3 1/2 Digit display • Front panel key operation and configuration • Scaling in a wide range • Process value hold, decimal point pos. setting	• 3 1/2 Digit display • Front panel key operation and configuration • Scaling in a wide range • Process value hold, decimal point pos. setting	• 3 1/2 Digit display • Front panel key operation and configuration • Scaling in a wide range • Process value hold, decimal point pos. setting
–	–	–
• DC Voltage • DC Current	• AC Voltage (signal monitor) • AC Current (signal monitor) • AC Voltage (line monitor)	• DC Voltage
• DC Voltage: +/-199.9 mV, +/-1.999 V, +/- 19.99 V, +/- 199.9 V • DC current: +/- 199.9 microA, +/- 1.999 mA, +/- 19.99 mA, +/- 199.9 mA	• AC Voltage: 0..199.9 mV, 0..1.999 V, 0..19.99 V • AC Current: 0..1.999 mA, 0..19.99 mA, 0..199.9 mA, 0..1.999 A • AC Voltage: 0..199.9 V and 0 to 400 V (line monitor)	• DC Voltage: +/-199.9 mV, +/-1.999 V, +/- 19.99 V, +/- 199.9 V
+/- 0.1% FS max, +/- 1 digit	AC Voltage: +/-0.3% FS max, +/- 1 digit	+/- 0.1% FS max, +/- 1 digit
–	–	–
2.5 Hz	2.5 Hz	2.5 Hz
–	–	–
100..120 VAC, 200..240 VAC, 24 VAC/VDC (85..110% of rated voltage	100..120 VAC, 200..240 VAC, 24 VAC/VDC (85..110% of rated voltage	5 VDC (95..105% of rated voltage)
IP50	IP50	IP50
96 x 48 x 70 (W x H x D)	96 x 48 x 66 (W x H x D)	48x24x70 (WxHxD)
This product is not shown in the catalogue. For more information please contact your local Omron sales office or download the data from www.eu.omron.com		