

Autonics

Multi Indicator KN-2000W SERIES

USER MANUAL FOR COMMUNICATION

■ Communication Specifications

Comm. protocol	Modbus RTU 1.1	Comm. speed	19200, 9600, 4800, 2400, 1200 bps
Application standard	Compliance with EIA RS485	Data bit	8-bit
Max. connection	32 units	Parity bit	None
Comm. method	2-wire half duplex	Stop bit	1-bit
Comm. distance	Max. 1200m (within 700m recommended)	Converter	Converter built in RS232

■ Read Input Status

No	Func	R/W	Item	Detail
100001	0000	2	R	AL1 indicator
100002	0001	2	R	AL2 indicator
100003	0002	2	R	AL3 indicator
100004	0003	2	R	AL4 indicator
100005	0004	2	R	°F indicator
100006	0005	2	R	°C indicator
100007	0006	2	R	% indicator

Alarm output indicator ON/OFF
0: OFF, 1: ON

Unit indicator ON/OFF
0: OFF, 1: ON

■ Read Input Register

No	Func	R/W	Item	Detail	
300001	0000	4	R	Present value -19999 to 19999	
300002	0001	4	R	Input type Refer to '■ Input Type Parameter Setting Value'	
300003	0002	4	R	Decimal point [only for analog input] 0004H: .0000, 0003H: 0.000, 0002H: 0.00, 0001H: 0.0, 0000H: 0	
300004	0003	4	R	PWM OUT 0 to 20000	
300005	0004	4	R	X (MSB)	—
				% indicator	Unit indicator ON/OFF 0: OFF, 1: ON
				°C indicator	
				°F indicator	
				AL4 indicator	Alarm output indicator ON/OFF 0: OFF, 1: ON
				AL3 indicator	
				AL2 indicator	
AL1 indicator (LSB)					

■ Input Type Parameter Setting Value (output value)

Thermocouple	K(CA)	0	RTD	Cu50Ω	12	
	J(IC)	1		Cu100Ω	13	
	E(CR)	2		JPt100Ω	14	
	T(CC)	3		DPt50Ω	15	
	R(PR)	4		DPt100Ω	16	
	B(PR)	5		Current	AMA1	17
	S(PR)	6			AMA2	18
	N(NN)	7		Voltage	AMV1	19
	C(W5)	8			AMV2	20
	L(IC)	9			AV1	21
	U(CC)	10			AV2	22
Platinel II	11					

■ Setting Mode Setting Group

No	Func	R/W	Item	Detail	
400001	0000	03/06/16	R/W	Input type	Refer to '■ Input Type Parameter Setting Value'
400002	0001	03/06/16	R/W	Temperature unit	[only for temp. sensor input] 0: °C, 1: °F
400003	0002	03/06/16	R/W	Front display unit	[only for analog input] 0: °C, 1: °F, 2: %, 3: OFF
400004	0003	03/06/16	R/W	High limit input value	[only for analog input]
400005	0004	03/06/16	R/W	Low limit input value	Within input range
400006	0005	03/06/16	R/W	High limit scale value	[only for analog input]
400007	0006	03/06/16	R/W	Low limit scale value	-19999 to 19999
400008	0007	03/06/16	R/W	Input correction	-999 to 999
400009	0008	03/06/16	R/W	Digital filter	1 to 16
400010	0009	03/06/16	R/W	Alarm 1 mode	[only for alarm output model]
400011	000A	03/06/16	R/W	Alarm 2 mode	1: High limit alarm, 2: Low limit alarm,
400012	000B	03/06/16	R/W	Alarm 3 mode	3: Sensor break alarm, 4: No alarm
400013	000C	03/06/16	R/W	Alarm 4 mode	
400014	000D	03/06/16	R/W	Alarm 1 option	[only for alarm output model]
400015	000E	03/06/16	R/W	Alarm 2 option	10: Standard alarm,
400016	000F	03/06/16	R/W	Alarm 3 option	11: Alarm latch,
400017	0010	03/06/16	R/W	Alarm 4 option	12: Standby sequence,
400018	0011	03/06/16	R/W	Alarm output hysteresis	13: Alarm latch and standby sequence
400019	0012	03/06/16	R/W	20mA output scale value	[only for transmission output model]
400020	0013	03/06/16	R/W	4mA output scale value	Temp. sensor input: within input range, Analog input: L-SC to H-SC
400021	0014	03/06/16	R/W	Decimal point	[only for analog input] 0004H: .0000, 0003H: 0.000, 0002H: 0.00, 0001H: 0.0, 0000H: 0
400022	0015	03/06/16	R/W	Input and trans. output extension	[only for analog input] 0: 0%, 1: 5%, 2: 10%
400023	0016	03/06/16	R/W	Digital input terminal	0: Alarm clear, 1: Display Hold,
400024	0017	03/06/16	R/W	Digital input key	2: Zero-point adjustment
400025	0018	03/06/16	R/W	Input special function	[only for analog input] 0: Linear, 1: Root, 2: Square, 3: Two Unit Function
400026	0019	03/06/16	R/W	Sensor break alarm output	0: ON, 1: OFF
400027	001A	03/06/16	R/W	Lock	0: OFF, 1: LOCK1, 2: LOCK2
400028	001B	03/06/16	R/W	Display color	0: Red, 1: Green, 2: Yellow, 3: Red-Green, 4: Green-Red
400029	001C	03/06/16	R/W	Alarm 1 display color	[only for alarm output model]
400030	001D	03/06/16	R/W	Alarm 2 display color	0: Red, 1: Green, 2: Yellow
400031	001E	03/06/16	R/W	Alarm 3 display color	
400032	001F	03/06/16	R/W	Alarm 4 display color	
400033	0020	03/06/16	R/W	Comm. address	1 to 99
400034	0021	03/06/16	R/W	Comm. speed	0: 19200, 1: 9600, 2: 4800, 3: 2400, 4: 1200
400035	0022	03/06/16	R/W	Comm. write	0: Disable, 1: Enable

■ Operating Mode Setting Group

No	Func	R/W	Item	Detail	
400051	0032	03/06/16	R/W	Alarm 1 setting value	[only for alarm output model]
400052	0033	03/06/16	R/W	Alarm 2 setting value	Temp. sensor input: within input range
400053	0034	03/06/16	R/W	Alarm 3 setting value	Analog input: L-SC to H-SC
400054	0035	03/06/16	R/W	Alarm 4 setting value	
400055	0036	03/06/16	R/W	High peak value	High peak value among measured value
400056	0037	03/06/16	R/W	Low peak value	Low peak value among measured value

※Func : Read Holding Register/Preset Single Register/Preset Multiple Register

■ Major Products

- Photoelectric Sensors
- Fiber Optic Sensors
- Door Sensors
- Door Side Sensors
- Area Sensors
- Proximity Sensors
- Pressure Sensors
- Rotary Encoders
- Connectors/Sockets
- Switching Mode Power Supplies
- Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controllers
- Graphic/Logic Panels
- Field Network Devices
- Laser Marking System(Fiber, CO₂, Nd:YAG)
- Laser Welding/Cutting System
- Temperature Controllers
- Temperature/Humidity Transducers
- SSRs/Power Controllers
- Counters
- Timers
- Panel Meters
- Tachometer/Pulse(Rate) Meters
- Display Units
- Sensor Controllers
- Recorders
- Indicators
- Converters
- Controllers
- Thyristor Power Controllers
- Pressure Transmitters
- Temperature Transmitters

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