

General Specifications

Model SIHK Indicator (with Alarm)

YEW SERIES 80

The Model SIHK Indicator displays the value of a normalized 1 to 5 V DC input signal (e.g. from a converter) on a moving-coil meter. There are two independent alarms; direct or reverse action may be selected and both normally-open and normally-closed alarm contact output is provided, so these may be used as high- or low-limit alarms. Two knobs on the front panel vary the alarm set points and move setpoint indexes on the indicator scale.

STANDARD SPECIFICATIONS

Input Signal

Input Signal: 1 to 5 V DC.

Input Resistance: 1 M Ω .

Indicator

Indicator Type: Moving-coil meter.

Indicator Accuracy: $\pm 0.5\%$ of span.

Scale Marking: Single scale, marked 0 to 100%. Scale may be changed.

Scale Length: 100 mm.

Alarm Functions

Alarm Setpoints: Two independent alarm set points, each may be varied in the range 0 to 100%. Pressing and turning the "SET" knobs on the front panel varies the alarm set points and moves corresponding setpoint indexes on the indicator scale.

Setpoint Indicating Accuracy: $\pm 0.5\%$ of span.

Alarm Hysteresis: Up to 2% of span.

Alarm Action: High- or low-limit alarm action is selectable for each setpoint – direct (DIR) or reverse (RVS) action can be selected using side-panel switches.

Switch Setting	Input signal < Set point	Set point < Input signal
Direct	Output relay releases.	Output relay operates.
Reverse	Output relay operates.	Output relay releases.

Number of Outputs: Two alarm outputs, each with both normally-open (NO) and normally-closed (NC) alarm contacts.

Contact Rating:

AC 110 V 1 A or 220 V 0.5 A (resistive load).

DC 30 V 1 A or 110 V 0.1 A (resistive load).

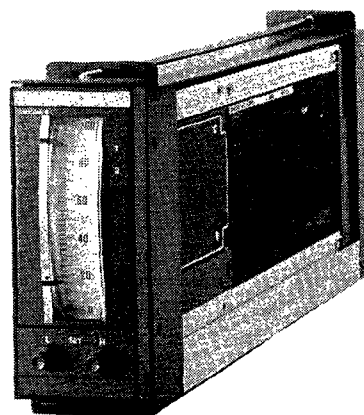
Status Lamps: Two lamps for indicating alarm status are on the front panel. The lamps can be lit by connecting two terminals on the rear panel of the indicator (internal power supply is used).

Normal Operating Conditions

Ambient Temperature: 0 to 50°C

Ambient Humidity: 5 to 90% relative humidity (non-condensing).

Power Supply: Two versions, for "100 V" (standard) or "220 V" (option/A2ER). For each version, AC or DC may be used, without change to the instrument.



100 V version: DC supply; 20 to 130 V, polarity reversible.

AC supply; 80 to 138 V, 47 to 63 Hz.

220 V version: DC supply; 120 to 340 V, polarity reversible.

AC supply; 138 to 264 V, 47 to 63 Hz.

Maximum Power Consumption:

Model	24 V DC	100 V AC	220 V AC
SIHK-110	80 mA	6 VA	7.3 VA

Insulation Resistance:

Between I/O Terminals and Ground: 100 M Ω /500 V DC.

Between Power and Ground: 100 M Ω /500 V DC.

Dielectric Strength:

Between Input Terminal and Ground: 500 V AC for 1 minute.

Between Alarm Output Terminal/Power Terminal and Ground:

1000 V AC for 1 minute (100 V version).

1500 V AC for 1 minute (220 V version).

Wiring:

Signal Wiring to/from the field: ISO M4 size (4 mm) screws on terminal block.

Power and Ground Wiring:

100 V version: JIS C 8303 two-pin plug with earthing contact.

220 V version: CEE 7 VII (CENELEC standard) plug.

Cable Length: 300 mm.

Mounting: Flush panel mounting. Instruments are in housings, and may be mounted individually or side-by-side.

Instruments may be inclined with front up to 75° from vertical (rear of instruments lower than front).

Nameplate: Cream semi-gloss finish.
 Size: 8 x 65.3 mm.
 Lettering: In black, one or two rows each up to 14 alphanumeric characters long.
 Front Panel Finish: Dark green (Munsell 2.5GY3/1)
 Housing: Open front.
 Bezel: Aluminium diecast, black baked-enamel finish.
 Housing Dimensions (Height x Width x Depth):
 182.5 (H) x 87 (W) x 480 (D) mm.
 Weight:
 Indicator: 2.5 kg.
 Housing: 2 kg (excluding mounting kit).

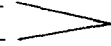


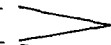
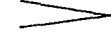
OPTIONS

/A2ER: For "220 V version" power supply.
 /MTS: Indicator supplied with kit for individual mounting.
 /SCF-G□M: Mounting kit bezel color change from standard color (black).
 Choose color from set of optional colors (see GS 22D1F1-E).
 /NHS: No housing. Instrument only. Order housing separately.
 /NPE: Letters engraved on front panel nameplate.

ACCESSORIES

One 1A fuse is supplied.

TERMINAL CONNECTIONS

Terminal Designation	Description	Terminal Designation	Description	
1	+  Input (1 to 5 V DC)	17	NC  Alarm output contact ("Low" alarm point)	
2		18		
3		19		
4		20		
5		21		
6		A		
7	B	NC  Alarm output contact ("High" alarm point)		
8	C			
9	D			
10	F			
11	+  Lamp 1 (upper)		J	
12			-  Lamp 2 (lower)	K
13				L
14				M
15				N
16				

(Note) NO: Normally Open (contact open when relay is released);
 NC: Normally Closed (contact closed when relay is released).

===== ORDERING INSTRUCTIONS =====

- Specify the following when ordering:
1. Model, suffix and option codes.
 2. Main scale and engineering unit marking (see GS 22D1C3-E).
 3. Nameplate marking, if required (option /NPE). See GS 22D1C4-E.
 4. Mounting kit (option/MTS), if the instrument is to be mounted individually.

MODEL AND SUFFIX CODES

Model	Suffix Codes	Style	Options	Description
SIHK . . . . .	. . . . .	. . . . .	. . . . .	Indicator with Alarm
Number Inputs	-1 . . . . .	. . . . .	. . . . .	One input
Alarms	1 . . . . .	. . . . .	. . . . .	One input, two alarms
	0 . . . . .	. . . . .	. . . . .	Always 0
Style Code		*A . . . . .	. . . . .	Style A
Options			/A2ER /MTS /SCF-G□M /NHS /NPE	220 V version* With mounting kit Bezel color change Without housing Nameplate engraving

* When ordering 220V version without housing, specify /A2/NHS.