

**HINL HR series
arrestor**



The compact plug-in arrestors for indoor use are designed to keep the line closed after the main unit is disconnected from the terminal block for easier maintenance.

Model	description	
HR-DS	Two-wire system transmitter circuit, 4–20 mADC signal circuit, 1–5 VDC signal circuit	
HR-DP	Contact signal circuit, pulse signal circuit, 24 VDC power supply circuit	
HR-TC	Thermocouple circuit	
HR-TR	Resistance bulb circuit, potentiometer circuit	
HR-PS	For small current (for each instrument)	AC power supply circuit,
HR-PW	For large current (for instrument and current)	AC contact signal circuit (100 VAC)



Caution: **Be sure to read the User's Manual to ensure correct, safe use.**

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- Before exporting the product, review the Foreign Exchange and Foreign Trade Act and follow the necessary procedures. If you have any questions, please contact our sales representative.

Hitachi Signal Converters

HINL Series

100TCA

100TRA

100MVA

100PRA

100DLA

100DRA

100ICA

100VIA

150TCA

150TRA

150MVA

150PRA

150DLA

150DRA

150ICA

150VIA

200TCA

200TRA

200MVA

200PRA

200DLA

200DRA

200ICA

200VIA

250TCA

250TRA

250MVA

250PRA

250DLA

250DRA

250ICA

250VIA

The HINL signal converter series has been renewed with new product lineups.

Features

- A variety of lineups for diversified applications
- Power consumption reduced by up to 30% compared to conventional models
- The design without aluminum electrolytic capacitors increased service life
- The dual-output models are equipped with two independent adjusting resistors for each point

Product lineups

Output	Main unit width	Model	Product
Single output ^{*1}	Conventional size (50 mm)	100TCA	Thermocouple temperature converter
		100TRA	RTD temperature converter
		100MVA	mV/V/mA DC-DC converter
		100PRA	Potentiometer converter
		100DLA	Distributor
		100DRA	Distributor (with square root extractor)
		100ICA	Isolator
	Compact size (29 mm)	100VIA	V/mA DC-DC converter
		150TCA	Thermocouple temperature converter
		150TRA	RTD temperature converter
		150MVA	mV/V/mA DC-DC converter
		150PRA	Potentiometer converter
		150DLA	Distributor
		150DRA	Distributor (with square root extractor)
Dual output ^{*2}	Conventional size (50 mm)	150ICA	Isolator
		150VIA	V/mA DC-DC converter
		200TCA	Thermocouple temperature converter
		200TRA	RTD temperature converter
		200MVA	mV/V/mA DC-DC converter
		200PRA	Potentiometer converter
		200DLA	Distributor
	Compact size (29 mm)	200DRA	Distributor (with square root extractor)
		200ICA	Isolator
		200VIA	V/mA DC-DC converter
		250TCA	Thermocouple temperature converter
		250TRA	RTD temperature converter
		250MVA	mV/V/mA DC-DC converter
		250PRA	Potentiometer converter
Compact size (29 mm)	250DLA	Distributor	
	250DRA	Distributor (with square root extractor)	
	250ICA	Isolator	
	250VIA	V/mA DC-DC converter	

*1: 4–20 mADC or 1–5 VDC

*2: Both outputs are 4–20 mADC or 1–5 VDC) To be selected upon placing the order

The technology evolved over the years is inherited in the enhanced reliability^{*3} and power saving property.^{*3}

(*3: Compared to the company's other products)

External view and major specifications

Item	Conventional size		Compact size	
	100A series	200A series	150A series	250A series
External view				
	(The figure shows 100DLA)	(The figure shows 200DLA)	(The figure shows 150DLA)	(The figure shows 250DLA)
Output signal	Single output	Dual output	Single output	Dual output
	4–20 mADC or 1–5 VDC (to be selected upon placing the order)			
Outer dimensions (mm)	50 (W) x 85 (H) x 123 (D)	50 (W) x 85 (H) x 132 (D)	29 (W) x 76 (H) x 124 (D)	
Screw terminal socket	8PFA-W (M3.5 screw)	11PFA-W (M3.5 screw)	Dedicated 11P screw terminal socket (M3 screw)	
Weight (including screw terminal socket)	approx. 280 g	approx. 300 g	approx. 180 g	
Installation method	Din rail/wall mounting compatible			
Power supply	85–132 VAC or 24 VDC +/- 10% (to be selected upon placing the order)			

Other HINL series models

HINL200A series digital alarm setter



The alarms receive 4–20 mADC/1–5 VDC analog signals, compare them with the signals set in the units, and output alarm signals from up to four isolated relay contact points.

Item	Specification	
Model	220VAS-2A	220VAS-4A
Input point	1 point	
Output point	2 points	4 points
Contact type	SPDT (form C) contact	SPST-NO (form a) contact

HINL200A series computing units



The compact plug-in type units receive signals from up to three points, execute a specified operation, and output the appropriate signals. The computing parameters are programmable using the model CMU-1 communicator.

Series	Types
HINL200A series	Square root extractor, adder/subtractor, multiplier/divider, temperature/pressure compensation computing unit, selector, time lag computing unit, function generator, linearizer (weirs and Parshall flume), pulse voltage converter, moving average processor