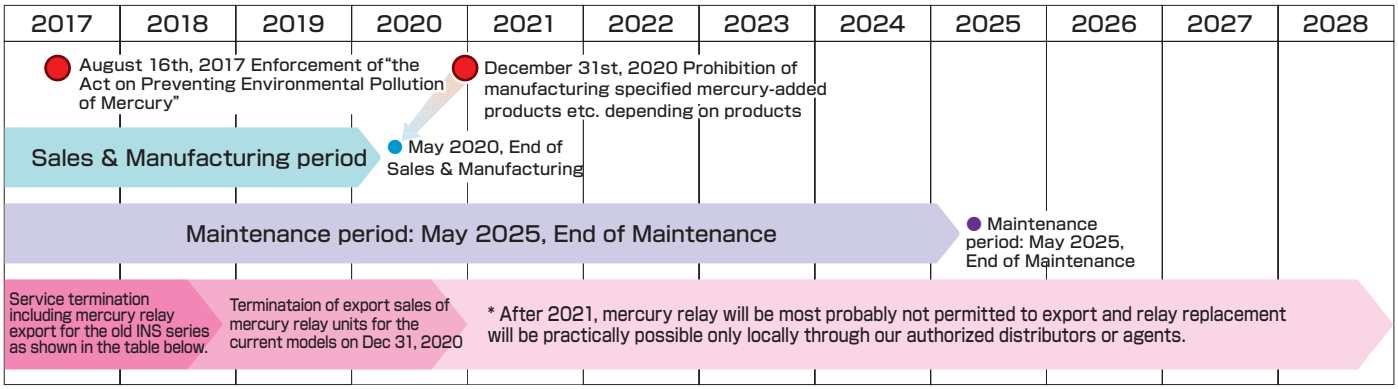
Impulse Noise simulator after sales service and support status and successor product notice

Following the enforcement of the The Minamata convention on Mercury signed on October 2013, domestic law “the Act on Preventing Environmental Pollution of Mercury” had taken effect on August 16th 2017. We have thus decided to announce the termination of sales and manufacture of the impulse noise simulator on May 2020.
If you wish to continue using the impulse noise simulator, we urge you to consider replacing your impulse simulator early. And we also urge you to replace yours even when you own the latest models (INS-4020/4040, INS-AX2 series) but expired 8 years after delivery maintenance period, we may have to decline for repair due to our maintenance policy.



INS series old products

Applicable Products	Service and support termination
INS-410/420/420A/420R	November 30th 2018
INS-4310/4320/4320A	November 30th 2018
INS-200/300/400AX	November 30th 2018
INS-400L	November 30th 2018
INS-4001	November 30th 2018





If your product is not on the list and not our active products (INS-4020, INS-4040, INS-AX2), maintenance service and parts sales of Mercury relays are already terminated. (Ex. INS-10A/20A, INS-320/350 etc.)
This notice does not warrant the execution of repair service until 2018. Some service parts are already out of stock and unprocurable so that we can only off er maintenance repair service where possible

Information on Successive models (Current models)

Correspondence chart between old model and current models (Per model)

Old models	Current models
INS-410/420/420A/420R	INS-4020/4040
INS-4310/4320/4320A	INS-4020/4040
INS-200/300/400AX	INS-AX2 series
INS-400L	INS-4020/4040
INS-4001	INS-4020/4040

Correspondence chart between the old models and current models (Per output voltage)

Old models	Current models
2kV model	INS-4020、INS-AX2-220/250
3kV model	INS-4040、INS-AX2-420/450
4kV model	INS-4040、INS-AX2-420/450

Please consult with sales representative for EUT power capacities

NoiseKen NOISE LABORATORY

Noise Simulator(Mercury relay type)

INS-4020/4040

Scheduled end of sale: May 31, 2020

INS-4020/4040

- Easy setting either to Common mode or Normal mode with short plug
- Simple setting of the repetitive cycles (VARIABLE, LINE PHASE) only on the main unit
- Output voltage level and pulse repetitive cycle ramps up/down granularity selectable at sweep

Parameter	INS-4020	INS-4040
Output voltage	0.01 ~ 2.00kV±10%(Positive and Negative Polarity)	0.01 ~ 4.00kV±10%(Positive and Negative Polarity)
Pulse width	50, 100, 200, 250, 400ns±10% combination thereof, 10ns±3ns (the shortest connection)	
Rise time	≦1ns	
Output impedance	50Ω system (53.5Ω)	
EUT power capacity	AC240V / DC60V 16A (L1/L2/PE or L1/L2/L3)	

Noise Simulator(Mercury relay type)

INS-AX2 series

Scheduled end of sale: May 31, 2020

INS-AX2 series

- Realize automation and efficiency in the test
- Simple and easy setting of the test parameters with PC remote control software
- Enable to switch Common mode / Normal mode and injection angle in the main unit
- EUT FAIL INPUT terminal built-in. Enable to control the test stop when EUT is malfunctioned during the automated test

Parameter	Specification
Output voltage	INS-AX2-220 / 250 : 0.01 ~ 2.00kV±10% (±0.04kV for <0.1kV) (Polarity Positive and negative)
	INS-AX2-420 / 450 : 0.01 ~ 4.00kV±10% (±0.04kV for <0.1kV) (Polarity Positive and negative)
Pulse width	50, 100, 200,400, 500, 800, 1000ns±10% 10ns±3ns
Rise time	≦1ns
Output impedance	50Ω system (53.5Ω)
EUT power capacity	Single phase AC240V / DC65V, 20A (L1/L2/PE/SG) AC50/60Hz±10% (model 220 / 420)
	Single & 3-phase AC300V / DC65V, 50A (L1/L2/L3/PE/SG) AC50/60Hz±10% (model 250 / 450)
	Single & 3-phase AC500V / DC250V, 50A (L1/L2/L3/PE/SG) AC50/60Hz±10% (model 250H/ 450H)

NEW impulse noise simulator

Noise Simulator(Semiconductor Relay type)

INS-S220

As noted above, upon enforcement of "the Act on Preventing Environmental Pollution of Mercury", our current impulse noise simulators which utilize mercury relays (thereafter referred to as current model) will be ceased to sell and manufacture on May 2020.In response, new simulator development utilizing new relay is currently underway.

General Specification

	INS-S220	INS-440(current model)	INS-AX2-420(current model)
Relay mechanism	Semiconductor Relay	Mercury relay	Mercury relay
Output voltage	2kV (4kV model pending)	4kV max	4kV max
Rise time	3ns or less	1ns or less	1ns or less
Pulse repetition	2ms~999ms±10%	16ms~999ms±10%	16ms~999ms±10%
Pulse width	50ns ~ 1000ns	50,100,200,250,400ns combination thereof	50,100,200,400,500,800, 1000ns±10%, 10ns±3ns
Output impedance	50 ohm	50 ohm	50 ohm

Scheduled market launch: Sep. 2019
(as of Dec. 2018)
Subject to change depending on future circumstances

Correlation between the NEW impulse simulator and current model

New impulse noise simulator specification is different from current model in terms of the output waveform (Rise time) due to the difference of relay mechanism. Therefore we expect that the test results between two simulators may not be correlational. There may be test results discrepancy where customer product (EUT) failure event is not reproduced under the same test condition. In order for you to keep enough transitional periods for the adoption of new impulse simulators, while you continue testing with the current model, we recommend you to consider updating your existing equipment to the latest model for longer service period.

* Designs, appearances and specifications on the products are subject change without notice.

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