



WARNING

Precautions on Handling Our Products

This document summarizes the precautions to be taken when you use our products in order to maintain their stated quality and safety.

Besides, carefully read the instruction manual separately prepared for each product and closely adhere to the instructions given.

General Handling Precautions

Applicable to all products

- As for transportation and storage, adhere to the conditions stated in the instruction manual.
- Uses should be limited to applications as industrial instruments, not to any other applications.
- At installation and removal, secure safety by using protective means, such as safety shoes, gloves, and goggles as necessary to afford adequate protection against injury.
- Many of our products are bulky and heavy. Prepare appropriate transportation and hoisting means, and pipe supports to afford protection against injury during transportation, installation, and removal.
- As a rule, the customer is to supply bolts, nuts, gaskets (packings) and fittings required for making connections with the process. Take process factors, such as pressure, temperature, and corrosion resistance, into consideration in selecting the right ones.
- In making connections (installation) with the process, make sure that connection fittings have the right dimensions. Dimensional errors can cause stresses on the equipment connected, possibly leading to trouble, erratic operation, and equipment failure.
- It is important that the equipment be used within the specifications stated on the approval drawing (or specification sheet furnished) or the nameplate, including the fluid name, flow range, fluid pressure, temperature, and viscosity. Operating the equipment under conditions different from these may result in trouble and equipment failure.
- After installation, riding on the equipment as a footing or using it as a fulcrum of prying other objects is dangerous to personnel and the equipment may be damaged or result in trouble. The converter case in particular is made of plastic material. Do not ride on, or apply any tool to it to avoid a breakage.
- Be sure to observe the instructions shown on the labels or plates attached to the equipment.
- Each equipment is manufactured, adjusted, and inspected under best possible quality control as an industrial instrument before leaving the factory. Do not therefore attempt to modify or change its design and settings unless it is absolutely necessary, or the equipment would fail to perform properly as stated or result in incompatibility or trouble. If any modification or change is desired, consult the factory beforehand.

About Materials

Applicable to all products

- The materials used in the product are stated in the approval drawing (or specification sheet furnished with the equipment). Supplied with all the necessary information by the customer, the manufacturer has used its best effort in selecting materials that best suit the customer requirements on corrosion resistance and other properties, but we understand that the final judgement to be made on compatibility in the actual process environment, including factors such as corrosion resistance, lie on the part of the customer.

About Maintenance and Inspection

Applicable to all products

- Suggested maintenance and inspection items and their intervals of the product may vary with given operating conditions and other factors. Referring to the instruction manual, make the right decision, taking into consideration the actual operating conditions.
- When you remove the equipment from the process line for maintenance or inspection, careful attention should be paid to the residual pressure and process fluid remaining inside the instrument. Particularly if the process material is corrosive or toxic, safety of personnel must be considered first.
- If the equipment has an integral remote signal transmitter, it is most important to make sure that power be shut off and isolated before you start working with removing wiring connections. At installation, make sure that wiring connections are correctly made before you turn on power.

Ensuring the Safety of Control

Applicable to all products

- This equipment was manufactured and inspected under best possible quality control as an industrial instrument before leaving the factory, but trouble could occur for various causes. When you use this equipment in a process control or elsewhere where a serious problem could arise, we recommend you to provide, in addition to this equipment, an additional equipment having the same functions in a duplicated circuit arrangement all account of doubly ensuring the safety of operation.

About Electrical Connections

Applicable to flowmeter pulse generators, receiving instruments, and computers

- As for electrical wiring connections, make sure of the information stated in the specification sheet furnished with the equipment, instruction manual, or other relevant documents and make wiring connections correctly. Incorrect wiring connections are not only the potential sources of trouble, but also the potential sources of accidents. When making wiring connections, be careful to avoid shock hazard.
- Any product requiring connections to an external power source must be connected to a power source of the rated voltage and capacity. Confirm the supply voltage and power consumption by referring to the approval drawing (specification sheet furnished with the equipment), and connect to the right power source. Placing an external voltage exceeding the rating across the power terminals may ruin the equipment or result in costly downtime.
- From installation work through to the completion of electrical wiring connections, exercise care to keep the instrument free from rainwater or other moisture. Upon completion of wiring connections, proper waterproofing should be provided.
- Keep your hands off the internal components of the equipment to avoid shock hazard while it is being energized.

About Warranty

Applicable to all products

- We will warrant our product as follows, unless otherwise specified. The following conditions shall always be applied in precedence over other conditions, unless otherwise explicitly excluded by the contract or other agreements made by us.
Period:

Twelve months from the date of delivery for newly delivered products. Six months from the delivery or repair for parts and repaired products.

Warranty coverage:

The product which is under warranty and proves defective resulting from design, manufacturing or materials, only if the defective is clearly laid to us.

Warranty obligation:

We will repair or replace the defective product, implementation of which shall be the performance of the warranty obligation. Our liability shall be limited to this warranty coverage in the event that the delivered product is defective.

Disclaimer

Applicable to all products

- We will immediately notify you of any delay or failure in the performance of its obligation, in part or whole, under the contract due to disaster, natural calamities, riots, accidents of transportation or any other effects caused by Force Majeure and make every effort to remove such cause to ensure the performance of the obligation. Under such event, we disclaim any responsibility or liability including damages.
Our liability for defective products shall be limited to the warranty coverage in the section of "About Warranty" in the event that the delivered product is defective.

About Explosionproof Products

Applicable to products constructed to explosionproof specification, of the products coming under the section "About Electrical Connections"

- Explosionproof rating of the product is stated in the approval drawing (specification sheet furnished with the equipment), and on the nameplate of the equipment. Judgement on its compatibility with the installation location lies on the part of the customer.
- Make positive wiring connections and earth grounding conforming to applicable regulations or standards. Any modification or change in the shell design and/or electrical circuitry, if made, will nullify the explosionproof rating. Never attempt therefore to modify or change them.
- Removing the cover of the electrical circuitry compartment or terminal box will nullify the explosionproof rating and present a safety problem. Do not attempt to open them up while the equipment in a hazardous location area is being energized. If it is absolutely necessary to open, be sure that power is off and that required safety measures are taken, or that the equipment is moved to a safe (nonhazardous) area before you start opening it.