

Immersion-type Detector with Pulse Air Jet Cleaner Drop-in Type Detector with Pulse Air Jet Cleaner (Combined with Polarographic DO Electrode)

POC-7D
POC-95D

The POC-7D and POC-95D are detectors that combine a polarographic DO (dissolved oxygen) electrode holder and pulse air jet cleaner as a single unit.

The pulse air cleaning system cyclically blows intermittent emission of compressed air onto the sensitive part of the electrode in the sample water. Efficient cleaning and removing the foul matter of sensitive part can be done by the high speed water flow produced by the rapid expansion of the pulse-jet compressed air. In addition, this water flow and contained air bubbles removes crystalline scale, such as a hydroxide, from the sensitive part of the electrode.

This system is also effective in removing the foul matter produced by organic substances and microorganisms at not only wastewater treatment plants, but also sewage treatment plants. As a result, cleaning of electrode become easily.

There are two main types: the immersion type for depths of up to 3 meters (POC-7D), and the drop-in type for deep tanks (POC-95D).

Compressed air can be externally supplied by a plant air system installed at the plant. If no plant air system is available, internal air pump to supply compressed air can be provided as an option.

Internal timer for cleaning can be purchased as an option for transmitter ODM series which doesn't equipped a cleaning control function.



POC-7D

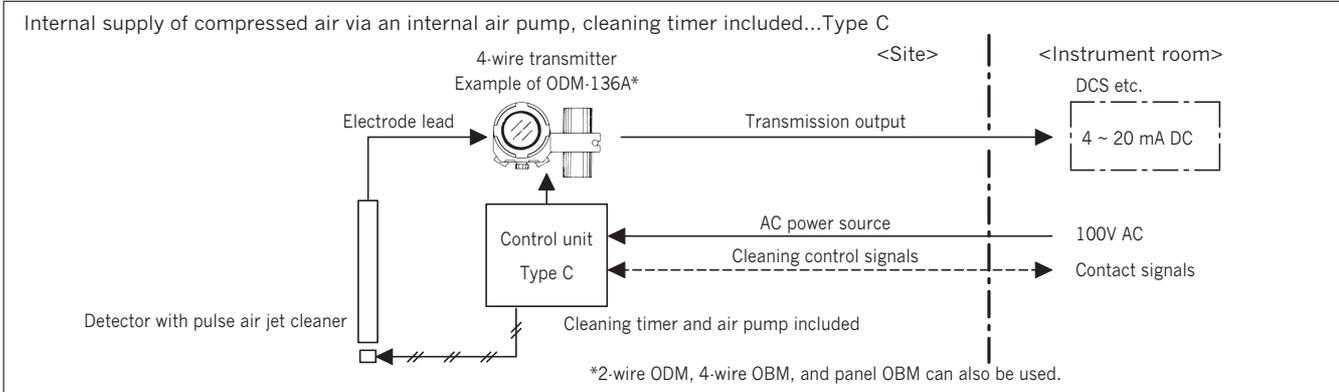
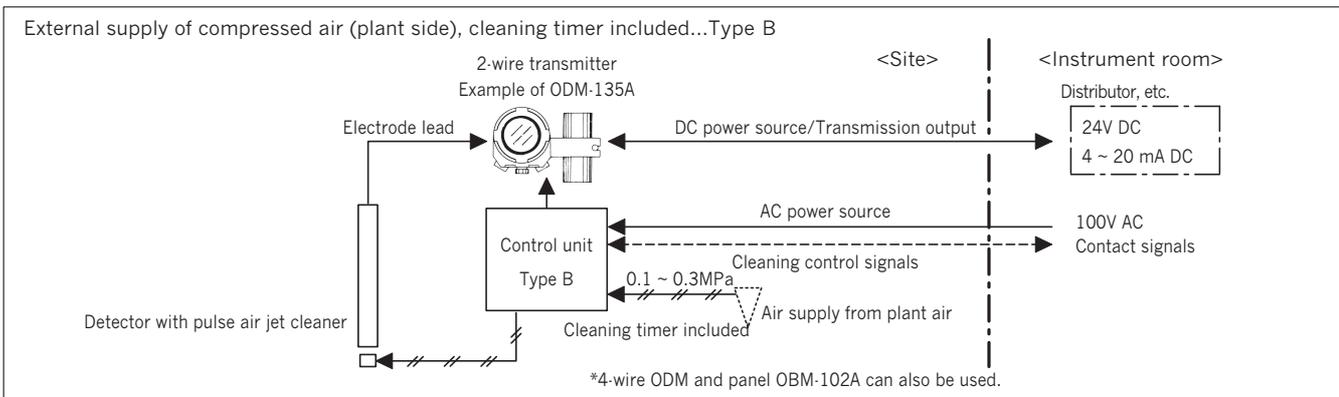
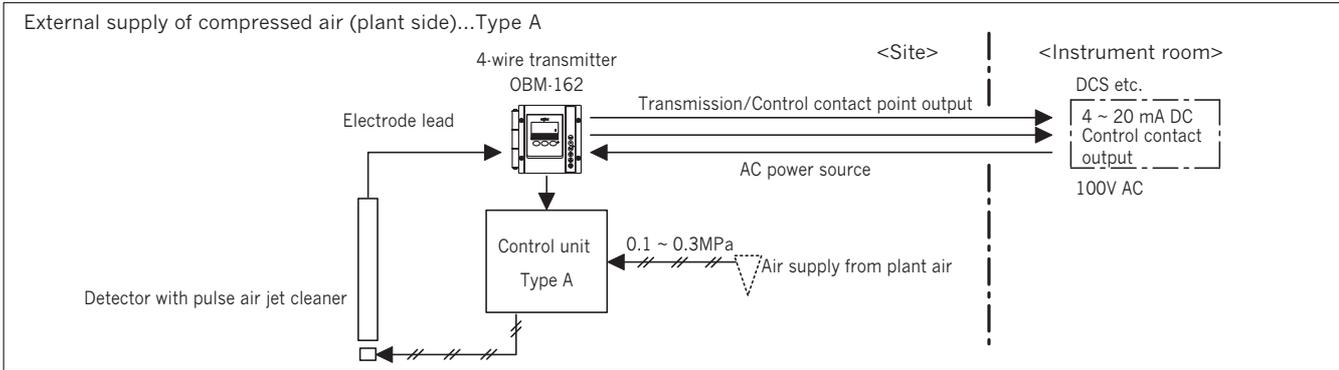


POC-95D

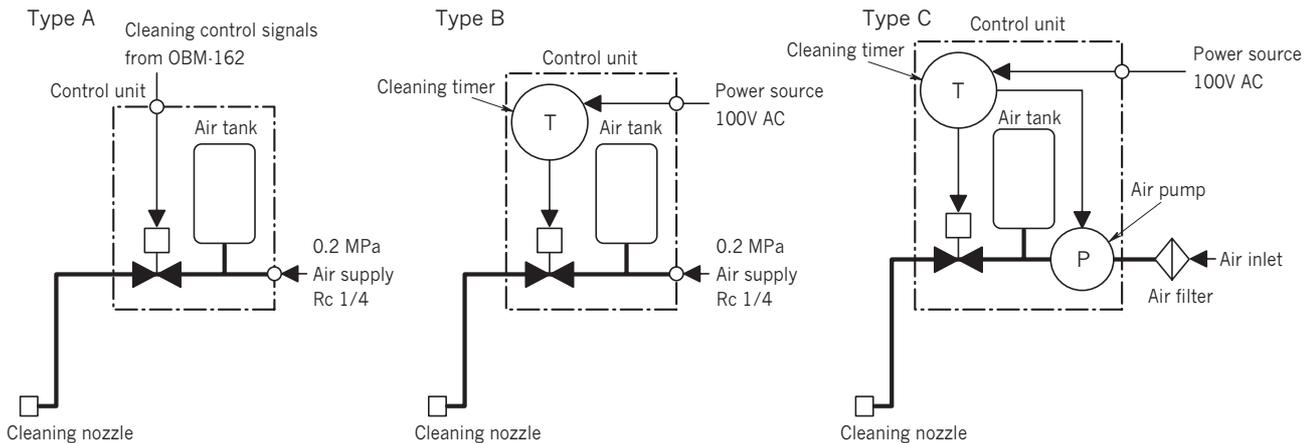
Standard Specifications

Product name	: Immersion-type Detector with Pulse Air Jet Cleaner; POC-7D Drop-in Type Detector with Pulse Air Jet Cleaner; POC-95D	Wetted part materials	: Immersion type; PVC, SUS316, Ryton (PPS) Drop-in type; PVC, SUS304/316, Ryton (PPS)
Measurement object	: Dissolved oxygen (DO)	Control unit construction	: IP54 Cable entry; Cable gland for $\phi 6 \sim 12$ cable (3 ports) Weight; Approx. 15kg (including air pump)
Cleaning method	: Intermittent cyclic cleaning using a high-speed water flow created by the expansion of compressed air in sample water	Detector weight	: Immersion type; Approx.4kg(Length...1m) Drop-in type; Approx.10kg(Length...3m)
Supported electrodes	: General use, sewage treatment 7533L human waste treatment 7536L	Cleaning timer (optional)	: Required when using the detector together with transmitter models other than the OBM-162. Also required when the air pump is equipped. Cleaning cycle; 0.1 to 99.9 hours (Factory setting...0.5 hours) Number of pulses; 1 to 19 pulses (Factory setting...1 pulse) Standby time after cleaning; 0.0 to 99.9 min (Factory setting...0.5min)
Air requirements	: Plant air; Dust/oil removal (air filter) required. Connection; Rc 1/4 Pressure supply; 0.1 to 0.3MPa Air consumption; Approx. 0.6L (per pulse)		
Power requirements	: 100V AC $\pm 10\%$, 50/60 Hz		
Power consumption	: Approx. 20 VA (150 VA when air pump is provided)		
Ambient conditions	: -5 to 50°C, 95% RH or less		
Sample water conditions	: Temperature; 0 ~ 45°C (no freezing) Pressure; Atmospheric pressure		

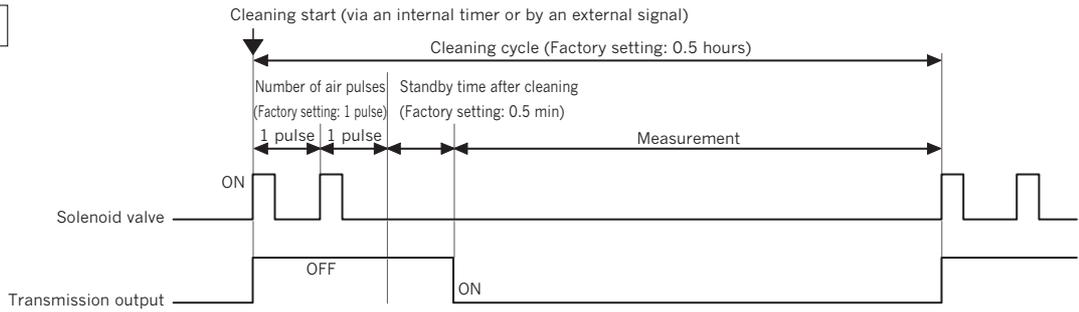
System Configuration



Flow diagram



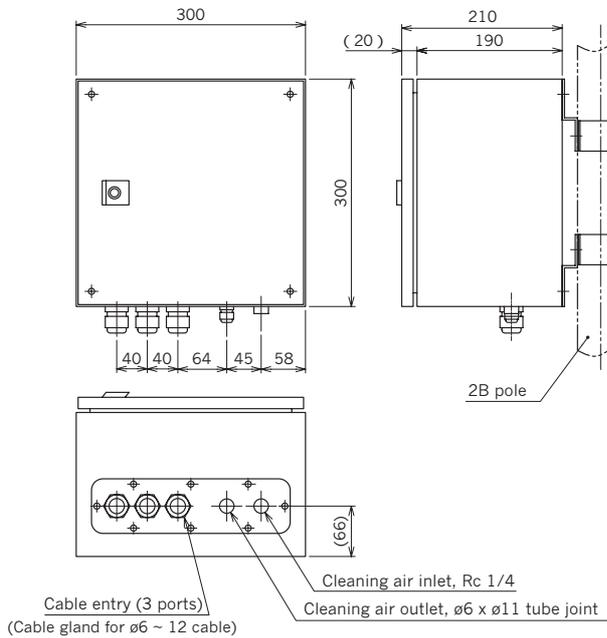
Time chart



Dimensions

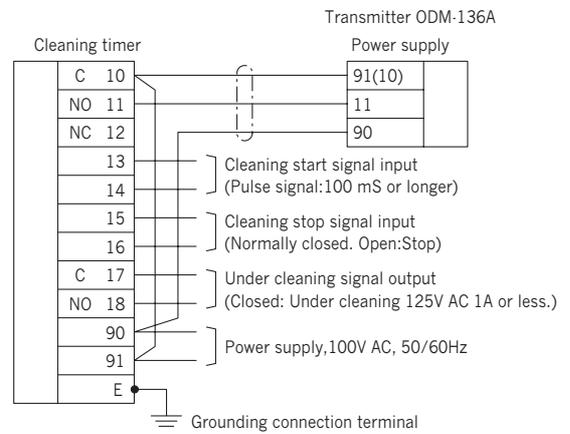
Unit : mm

Control unit (Type A/B)



Connecting the cleaning timer

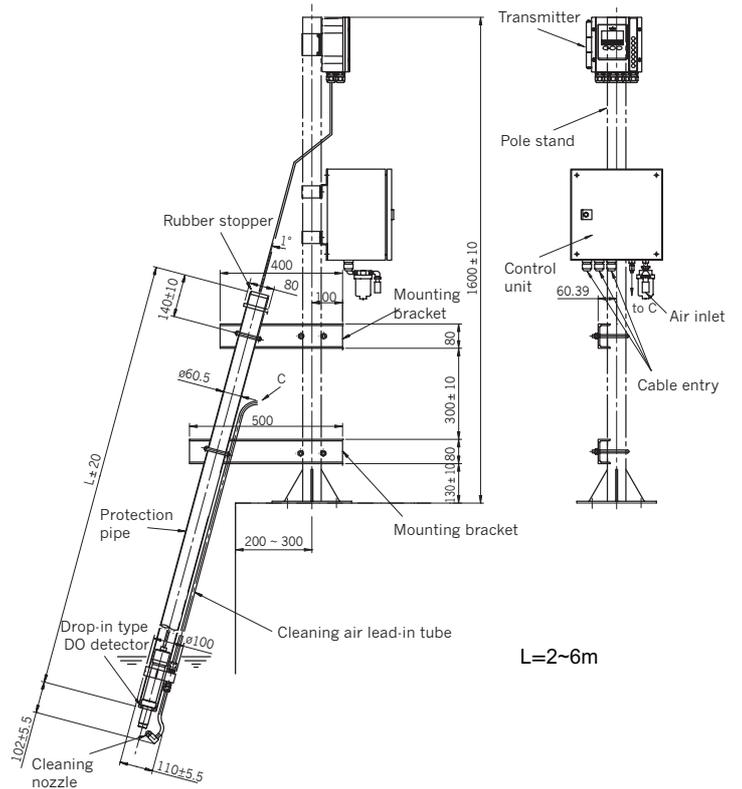
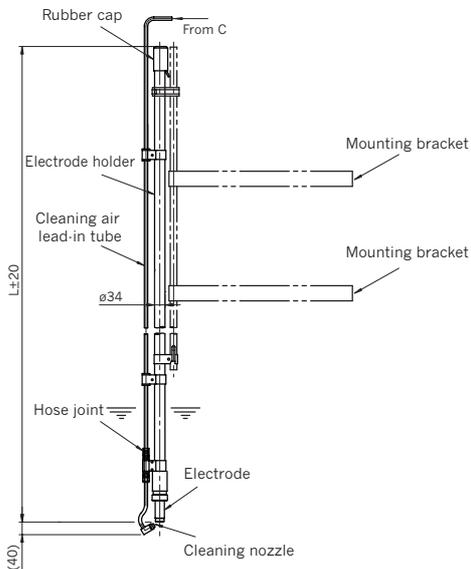
Type B/C example of connecting the transmitter ODM-136A



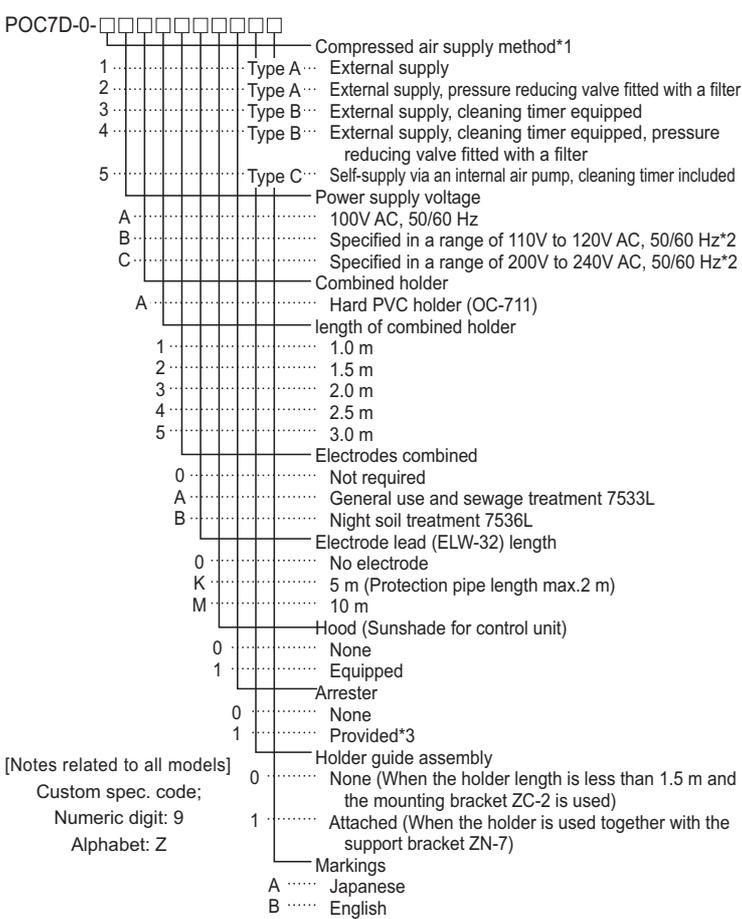
Drop-in type detector POC-95D (Type C)

(Air pump equipped)

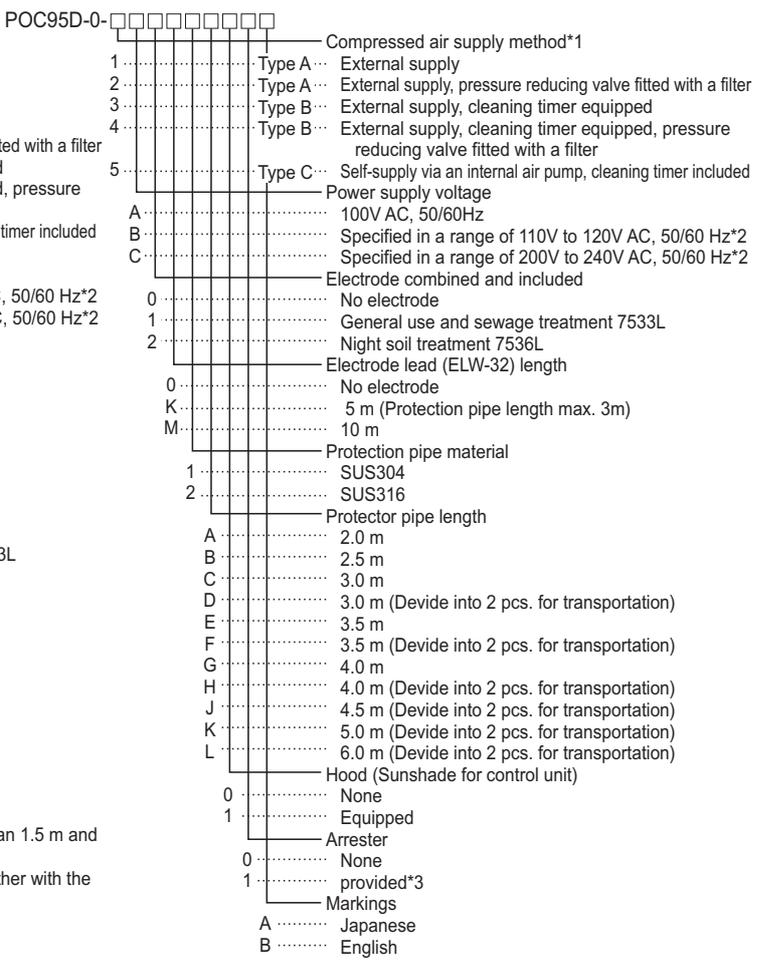
Immersion type detector POC-7D



Product code



[Notes related to all models]
 Custom spec. code;
 Numeric digit: 9
 Alphabet: Z



[Notes related to all models] *1. Available transmitter vary according to the method for supplying compressed air (Type A, B, or C)

Type A	OBM-162
Type B	ODM-135A/136A , OBM-102A
Type C	OBM-162 , OBM-102A , ODM-135A/136A

*2. Specify a voltage between 110V,115V and 120V AC for B. Specify a voltage between 200V,220V,230V and 240V AC.(The step down transformer is set in the controller.)
 *3. For internal cleaning timer, a ceramic surge arrester must be mounted on the power line.

Note1. Sample water conditions
 Temperature: Max. 45°C Pressure: Atmospheric pressure
 Note2. We recommend using the drop-in type POC-95D when a total detector length of 2 m or more is required.
 Note3. If needed, the pole stand ZB-1 and the following mounting brackets can be ordered separately.
 Mounting bracket: Holder length of 1.5 m or less; ZC-2
 Holder length of 2 m or more; Use the ZC-1/C together with the support bracket ZN-7.

Note1. Sample water conditions
 Temperature: Max. 45°C Pressure: Atmospheric pressure
 Note2. A rubber stopper on the top of the protection pipe is fitted as standard.
 Note3. If case mounting brackets for the protection pipe are needed, the pole stand ZB-1 and the following mounting brackets can be ordered separately.
 50A pipe mounting bracket (SUS bracket 2-piece set): ZCH-3



DKK-TOA CORPORATION



Do not operate products before consulting instruction manual.

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