

PPV

- ◎ This sensor enables high-accuracy, low-cost water level observation for paddy fields and irrigation channels.
- ◎ The sensor is easy to install and maintain.

Features 1.Immersion-type 2.For paddy fields and irrigation channels

- Pressure-type water level sensor with a stainless steel diaphragm
- Water level measurement to an accuracy of millimeters possible (accuracy: $\pm 0.3\%$ F.S. or less)
- Making the sensor dedicated to paddy fields and irrigation channels has led to low cost.
- The immersion-type sensor can be installed easily.
- The maintenance workload is reduced as litter, algae, and other foreign matters do not easily attach to the sensor.
- Measurement range: : 1 m
- Low-power model that operates on a 9-V battery
- Output signal of 1 to 5 VDC from a built-in amplifier circuit

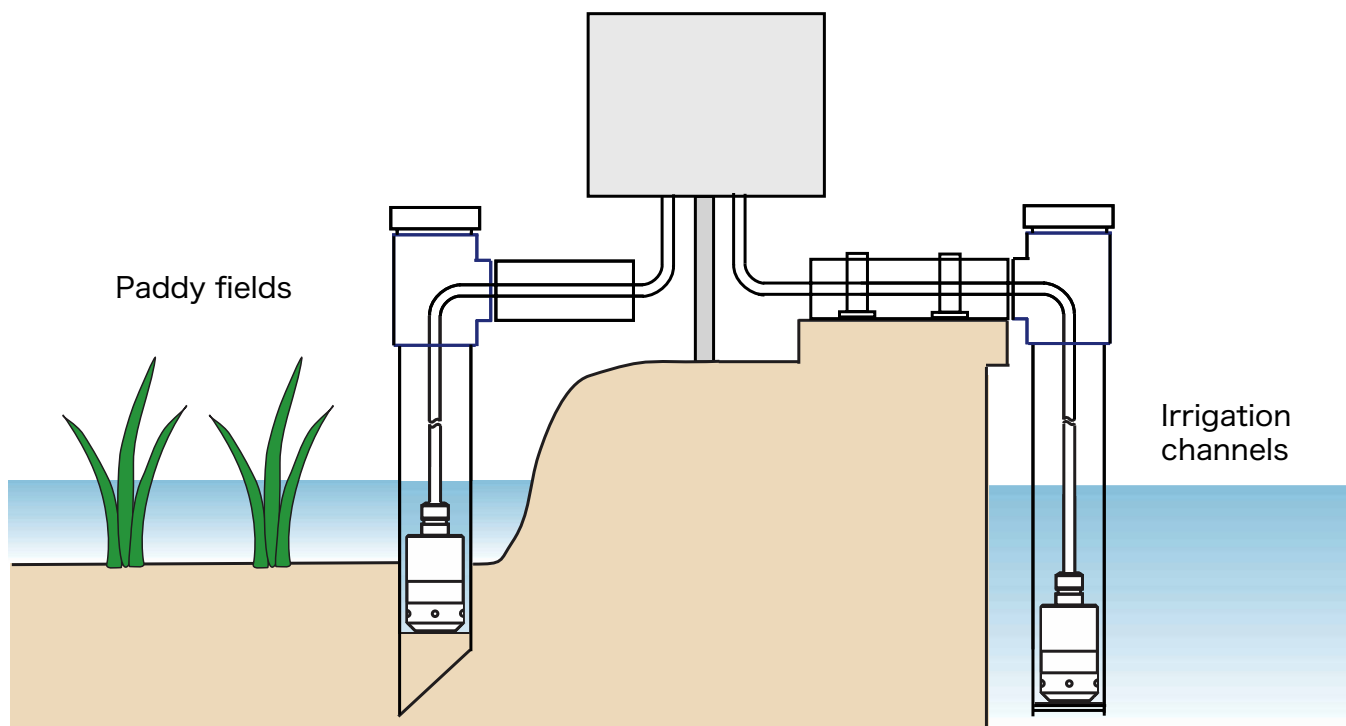


Uses

- Water level observation for paddy fields
- Water level observation for irrigation channels

Installation example

A polyvinyl chloride pipe or other pipe is set up at the measurement location so that water flows through it. The PPV is installed and wired inside the pipe.



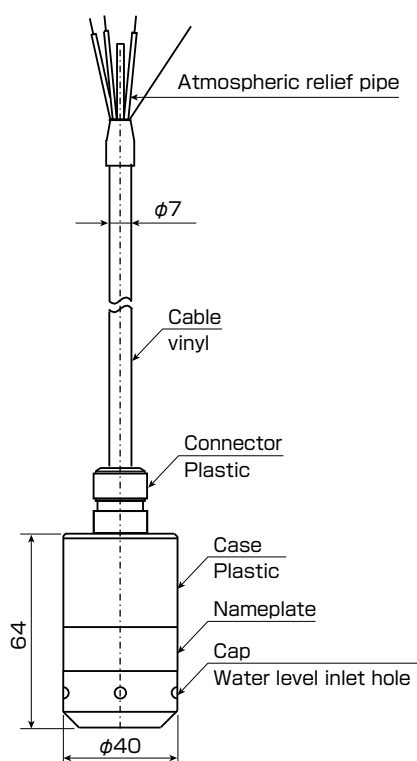


Water Level Meters for Paddy Fields

Specifications

Model	PPV-010KP
Rated pressure	1mH ₂ O (10kPa)
Overpressure	2mH ₂ O (20kPa)
Power supply	8 to 15VDC
Output	1 to 5VDC
Current consumption	6mA or less
Load resistance	1k Ω or more
Accuracy (linearity)	$\pm 0.3\%$ F.S. or less ($\pm 0.2\%$ F.S. or less)
Temperature characteristics at zero degrees	$\pm 0.01\%$ F.S. / $^{\circ}\text{C}$ or less (0 to 60 $^{\circ}\text{C}$)
Operating temperature range	- 10 to 60 $^{\circ}\text{C}$ (no freezing allowed)
Storage temperature range	- 10 to 60 $^{\circ}\text{C}$ (no freezing allowed)
Material	Diaphragm : SUS316L O-ring : Fluororubber
	Cap, case, and connector : Plastic Shrinkable tube: Polyolefin
Sealing liquid	Silicone oil
Cable	ϕ 7 vinyl : 1m (standard) Shield + atmospheric relief pipe
Tensile strength	100N (Between the main unit and cable)
Insulation resistance	100M Ω or more / 500VDC (Between the signal and case)
Withstand voltage	500VAC, 1 minute
Weight	Main unit : approx 130g Cable : approx 65g per meter

Dimensions (Units : mm)



Model

P	P	V	-	0	1	0	K	P	-	0	2
Pressure (water level)									Cable length		
									01 : 1m (standard)		
									02 : 2m		
									05 : 5m		
									10 : 10m		

Cables / wires

Red	Power supply +
White	Output
Black	Common

Pressure-Output characteristic

