

Techno-Nav!

テクノナビ

! Quality Control Package Available models: SEEV-A/SEEV-A-HD



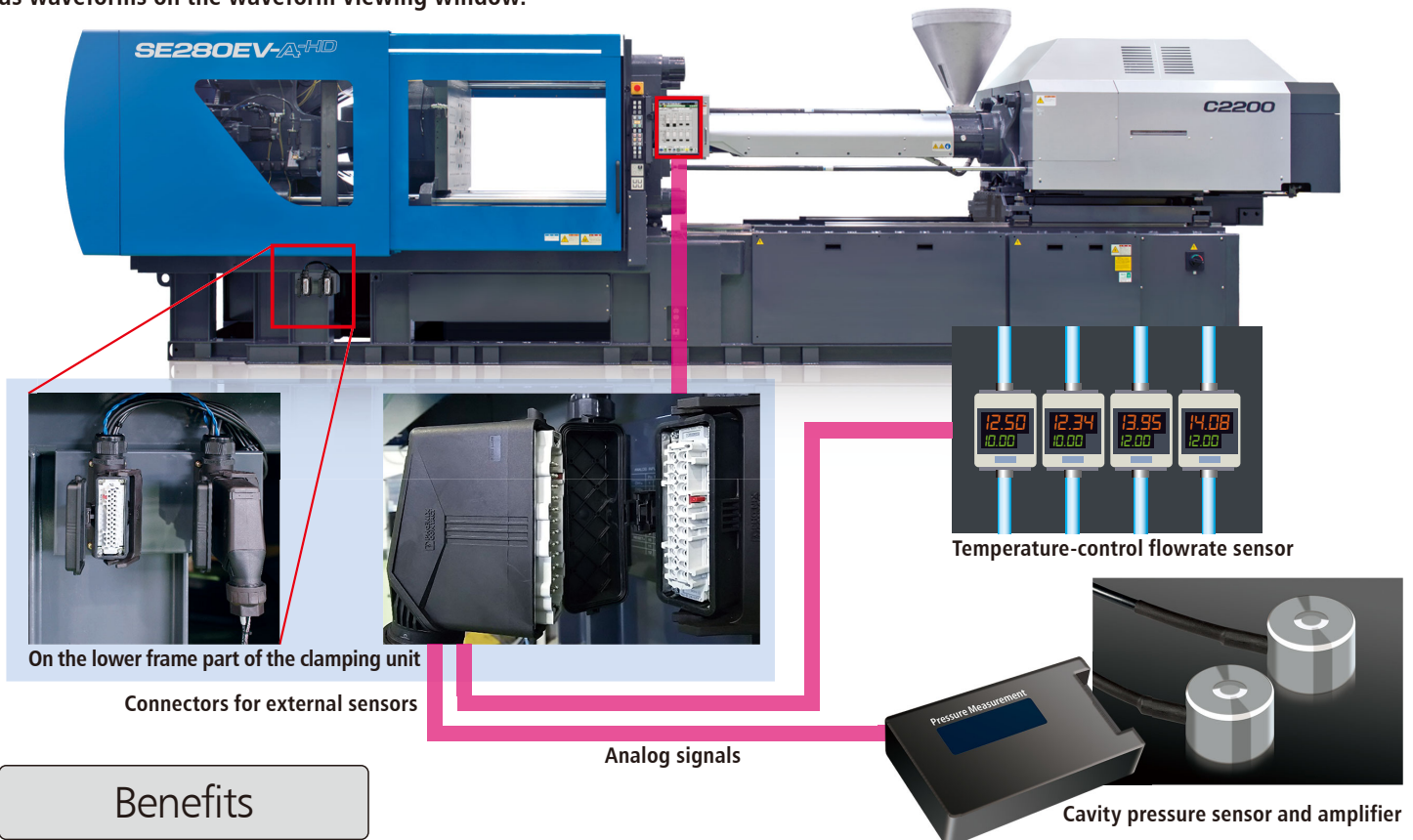
Overview

The Quality Control Package is an application package that takes quality control a rewarding step higher, by adding connectors for external sensors to the lower part of the mold clamping unit frame (on the operating panel side). Through these connectors, the analog readings (voltage and current) that external sensors generate for cooling water flowrate, mold internal pressure or other quality-pertinent conditions can be monitored and recorded from the operating panel's waveform viewing and logging windows. This application package provides superior quality control.

- The user prepares and connects the cables for the external sensors.

Configuration and Functions

Purpose-specific connectors for connecting analog signals are provided in an easily accessible location on the molding machine frame, which alleviates the users of any tedious cable connections inside power distribution boxes. With every shot, the peak readings from the connected external sensors are recorded as logging data. Moreover, those signals can be selected and displayed as waveforms on the waveform viewing window.



Benefits

Quality control items such as cavity pressure and temperature can be associated with the logging of the molding machine and be monitored and recorded on the operation screen, enabling more accurate quality control. It greatly simplifies the troublesome tasks of connecting analog signals to molding machines and converting those signals into workable data.

Specifications

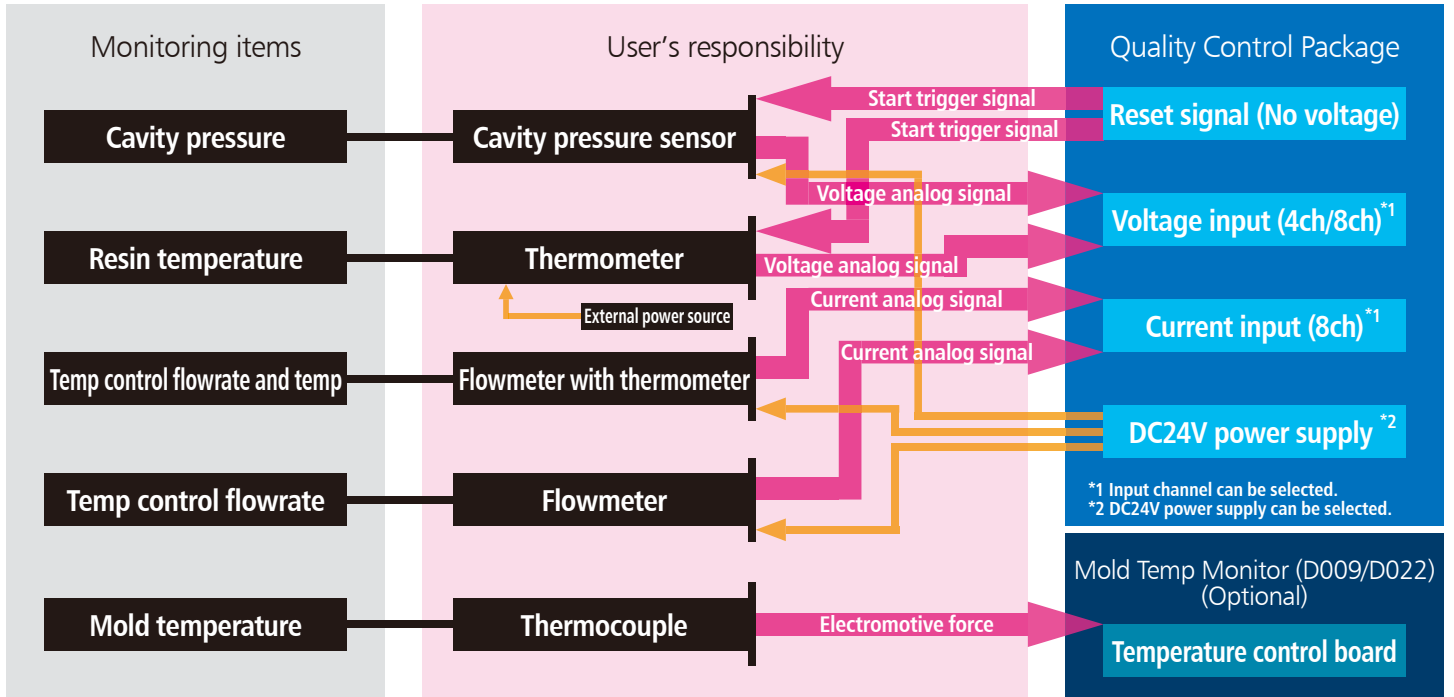
Continued on the back side ▶▶

Specifications

Any sensor capable of analog output can be read through these connectors into the data windows of the molding machine's operating panel. Moreover, if needed to drive a sensor amp, 24V of power can be supplied.

Example System

- This example shows a common system.
- Consult with sensor manufacturers as to which sensor to choose and whether a sensor amplifier is needed or not.



- Other sensors than those shown above can be connected as long as they output analog signals.

Example Windows

Sensor setting window (Voltage)

- Analog voltage output specifications of cavity pressure sensor: 0 - 10V → 0 - 100 MPa

	CH01	CH02
ON/OFF	ON	ON
Item	Mold cavity pres.	Mold cavity pres.
Range upper limit [V]	10.0	10.0
Range lower limit [V]	0.0	0.0
Range upper limit	100.0 MPa	100.0 MPa
Range lower limit	0.0 MPa	0.0 MPa
Actual value [V]	12.3	12.3
Scaled value	122.9 MPa	122.9 MPa

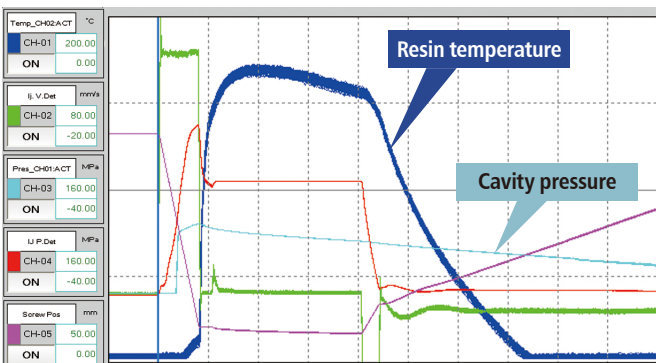
Sensor setting window (Current)

- Analog current output specifications of flowmeter: 4 - 20 mA → 0 - 10 L/min

	CH09	CH10
ON/OFF	ON	ON
Item	Flow rate	Flow rate
Range upper limit [mA]	20.0	20.0
Range lower limit [mA]	4.0	4.0
Range upper limit	10.0 l/min	10.0 l/min
Range lower limit	0.0 l/min	0.0 l/min
Actual value [mA]	24.6	0.0
Scaled value	12.9 l/min	-2.5 l/min

Waveforms

- Waveforms can be displayed for "Cavity Pressure", "Flowrate", "Temperature", and "Sensor".^{*3}



^{*3} When a sensor is selected by waveform display or logging, the unit is voltage [V] or current [mA].

Logging

- Logging can be selected from "Cavity Pressure", "Flowrate", "Temperature", and "Sensor".^{*3} The peak value from mold close start until hold pressure end are completed can be logged. Judgment of defective can be performed by setting the monitoring items.

