Techno-Nav! テクノナビ

Application 03

Sumitomo SHI DEMAG

SPICCP Communication for Mold Temperature Controller

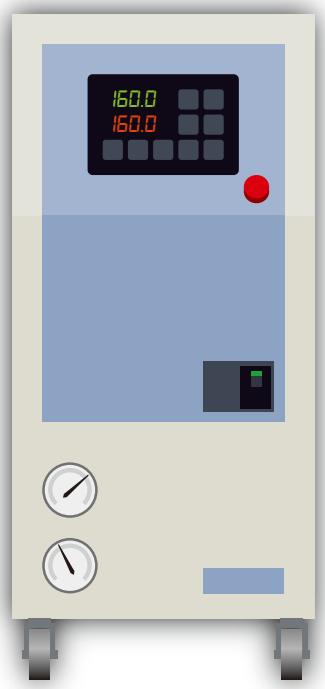
Available models: SE-EV/SEEV-A/SEEV-A-HD

Overview

By connecting molding machine and mold temperature controller through SPICCP*, mold temperature controller can be operated from the molding machine. Not only does this quicken the setup retrieval but it also prevents careless mistakes.

- A communication protocol advocated by an industrial group in the USA. (The Society of the Plastics Industry, inc. Committee on Communication Protocol)
- Applicable maker: Matsui, Kawata, Nakamura and Stolz

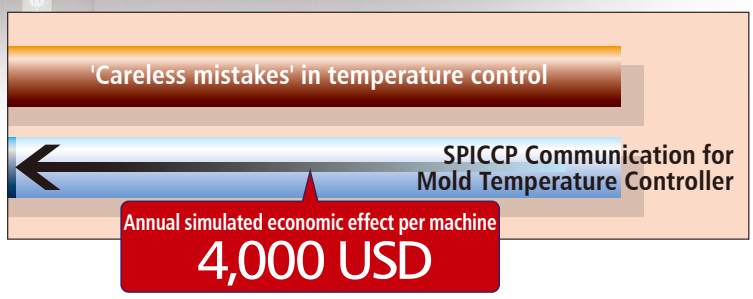
Configuration and benefits



Mold temperature controller

Example benefits

■ Less production loss by preventing 'careless mistakes'



SPI communication allow read out of setting from molding condition and also monitoring of mold temperature will stop machine which will prevent continuous molding of rejects. Job efficiency improved too.

Basis for calculating economic benefit
- Extra mold repair cost from mold damage: 2 times/year (Totaled: 3,000 USD)
- Extra production loss due to dispose of reject parts: 3 times/year (Totaled: 1,000 USD)

Specifications

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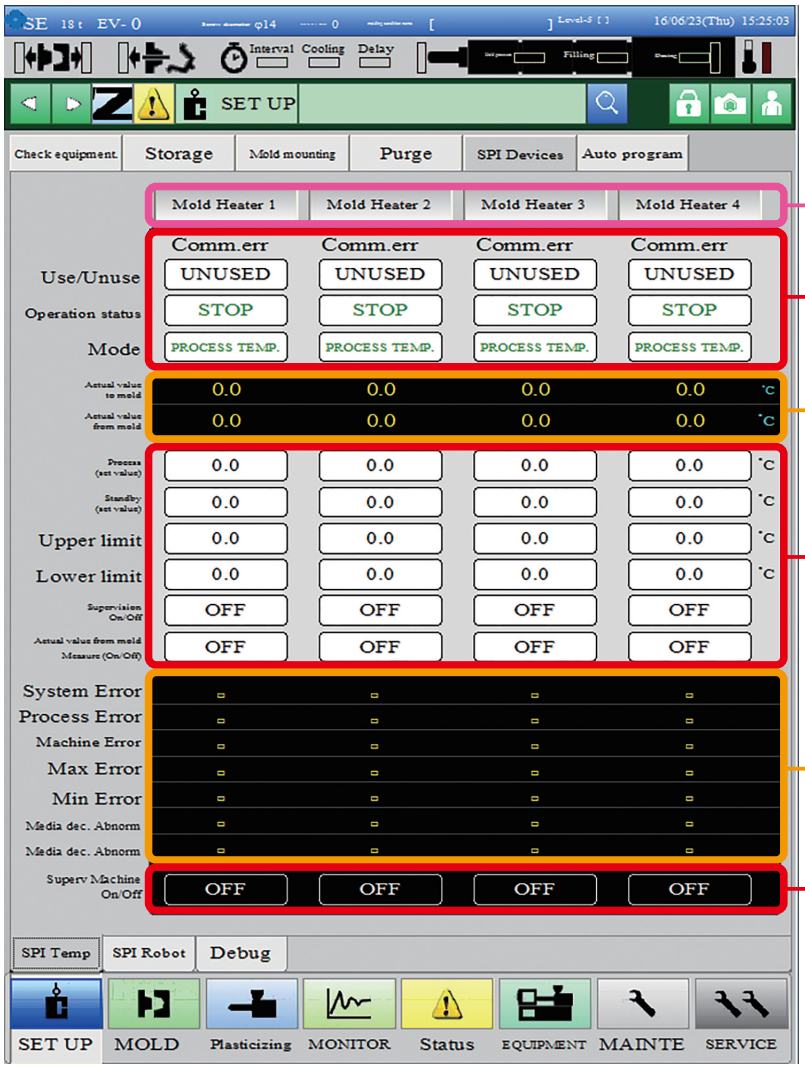
Specifications

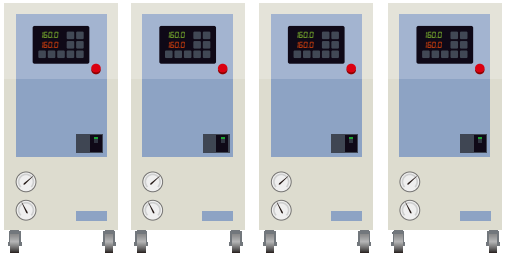
Specification of SPI interface

- The specifications of the communication cable are as follows.
  Matsui: RS-422(4-wired) / Kawata: : RS-485(2-wired) or RS-422(4-wired) /
  Nakamura and Stolz: RS-485(2-wired)
- Exclusive screen "SPI Devices" for mold temperature controller
  (ON/OFF, temperature setting and monitoring)

● The user procures and provides the cable.



Units of mold temp. controller



SEEV-A Max. 2

SEEV-A-HD Max. 4

● The number of temperature controllers that can be connected differs depending on the injection molding machine models.

● How to connect the temperature controllers to the injection molding machine depends on the controller models. For details, contact Sumitomo.

Settings

- Use/Unuse
- Operational status
- Mode (Process/Standby)
- Process mode temperature
- Standby mode temperature
- Upper limit
- Lower limit
- Supervision ON/OFF
- Actual return medium temperature measurement ON/OFF*
- Supervision molding machine ON/OFF

● *Available as an option for particular temperature controller models.

Monitoring

- Actual feed medium temperature
- Actual return medium temperature
- System error
- Process error
- Machine error
- Temperature upper limit error
- Temperature lower limit error
- Low medium error
- Communication error

Sumitomo Heavy Industries, Ltd.
Plastics Machinery Div. Head Office (Global Sales Dept.)
1-1, Osaki 2-chome, Shinagawa-ku, Tokyo 141-6025, Japan Tel:+81-3-6737-2576 Fax:+81-3-6866-5176
www.shi.co.jp/plastics/

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