Omron’s Multiloop in-panel temperature control system CelciuX° not only has our proven control technology 2-PID(*), but also provides a wide range of connectivity options. In this document we provide a complete overview of the system integration possibilities with CelciuX°.

High Function unit
EJ1G-HFU_-NFLK
EJ1N-HFU_-NFLK

DeviceNet Unit
EJ1N-HFUB-DRT

End unit
EJ1C-EDUA
or
EJ1C-EDUC

Temperature Control Units
EJ1_-TC2/TC4

Programless Communications
To Omron and other PLCs and Hosts*

Serial RS485
Compoway/F°

PC configuration
With CX-Thermo°

HMI

DeviceNet

Profibus Coupler°
PR71-SCUTT

* TechNote available: Omron TechNotes are a collection of technical or feature explanations and quick-start-guides, clear and to-the-point. Ask your local sales representative about TechNotes.
Basic system; It is always possible to build the following with EJ1-TC__ units:

![Diagram of Temperature Control Units EJ1-TC2/TC4]

- With or without HFU unit
- Up to 8 G3ZA per TC unit
- Up to 8 SSR per G3ZA

Smart System; with EJIN-HFU (normal) or EJIG-HFU (GTC1)

- PC configuration
  - Max. 16 TC units per EDU
  - Max. 64 TC units per system
- No HFU
- RS485

Distributed configuration
- EJ1-TC2/TC4
- Max. 16 units per HFU
- NT-link to Omron PLCs *
- Mitsubishi Q/An/Fx3uc series
- DeviceNet to any host
- Compoway/F to any host *
- Serial to other brands PLC (using GWY-00B)
- Siemens S7 *
- Allen Bradley
- Rockwell

System without HFU; gives the following connectivity options:

![Diagram of PC configuration]

- No HFU
- Max. 16 TC units per EDU
- Max. 64 TC units per system
- RS485

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* TechNote available
Note1: GTC = Gradient™ Temperature Control
Note2: When using EJ1G-TC__ the EJ1G-HFU__ is mandatory.