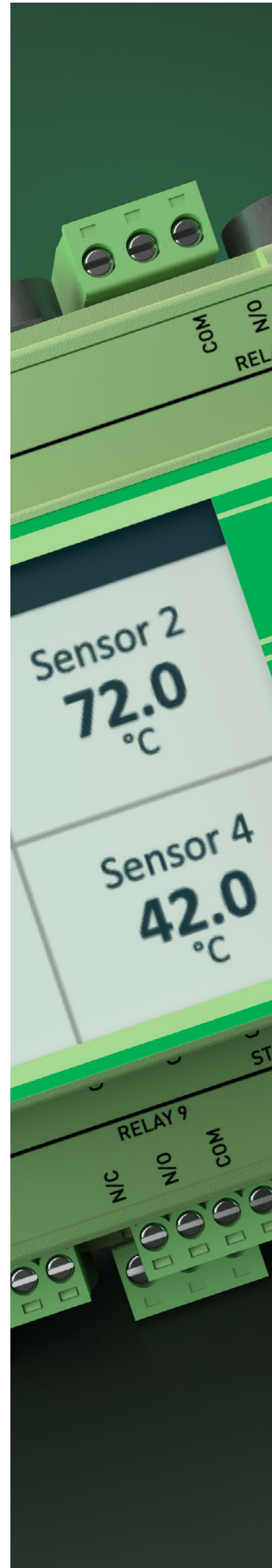


# Intuitive Superpack Range

Optimum Refrigeration  
Pack & Condenser Control

Intuitive Superpack | Intuitive Superpack Multi INV | Intuitive CO<sub>2</sub> Superpack



## User-Friendly Controllers for Energy-Efficient Pack Systems

Intuitive Superpack controllers deliver stable and responsive energy regulation with no complicated user programming necessary. Managing central pack systems to cool multiple refrigerated spaces, Intuitive Superpack devices provide optimal control and energy efficiency in both retail and industrial settings.

### Three Versions for Diverse Applications

Three controller subgroups are available within the range. The Intuitive Superpack – the initial controller that gave the range its name - controls and monitors three general sections, and up to three suction or discharge sections. Intuitive Superpack Multi INV controllers deliver enhanced capabilities, allowing control of up to four variable capacity compressors per section. Intuitive CO<sub>2</sub> Superpack devices control and monitor HT/LT parallel transcritical CO<sub>2</sub>, gas cooler, and HT/LT oil applications for up to eight sections.

### Smaller Hardware Options for Smaller Premises

A smaller hardware option, Mini Intuitive Superpack, is available for all three Intuitive Superpack versions. Mini Intuitive Superpacks are ideally suited for premises with up to five compressors. These can include retail settings such as convenience stores, petrol forecourts, and food-to-go outlets. Despite its compact size, the Mini Intuitive Superpack range maintains the many software features of the larger hardware versions. The notable difference is the number of inputs and outputs.


### Open Protocol Communication for Cost-Effective Retrofits

The Intuitive Superpack range features the open protocol options BACnet and XML which enable communication with a system front-end, including third-party devices. This keeps retrofit costs low because Intuitive Superpack devices can be installed within an existing third-party control system.


Intuitive Superpack controllers can also communicate downward via IP (Internet Protocol), USB, and CAN bus for simple connectivity to the refrigeration system's devices and peripherals.

### Remote Monitoring and Control Options via Web Browsers


Installers can view and change the setpoints of Intuitive Superpack controllers remotely via a web browser. This reduces the number of site visits necessary which in turn saves maintenance costs and lowers CO<sub>2</sub> emissions.



Open Protocols



Energy Efficiency



CO<sub>2</sub> Refrigeration



Remote Connectivity

## Key Features

- Precise refrigeration pack control in retail and industrial settings
- Open protocol communication to facilitate third-party integration
- Local or remote access to settings via a standard web browser
- Five-year warranty
- Expansion modules to increase I/Os to suit project requirements

### Intuitive Superpack

- Control and monitor three sections comprised of pack and condenser groups
- Control up to 16 outputs per section: compressors, loaders, trim compressors, digital scroll compressor or fans
- Frequency control of compressors and condenser fans
- Pack and condenser section fault monitoring

### Intuitive Superpack Multi INV

- Control of four variable outputs per section, inverter-driven compressors, or digital scroll compressors
- Control multi-cylinder reciprocating compressors with up to four capacity control solenoids.
- Real-time graphing of controller variables on the web-based interface to aid commissioning and fault-finding

### Intuitive CO<sub>2</sub> Superpack

- For environmentally-friendly CO<sub>2</sub> refrigeration applications
- HT/LT/parallel transcritical CO<sub>2</sub>, gas cooler and receiver, and HT/LT oil monitoring and control

## Accessory Examples

| DESCRIPTION                                                                                    | PART NUMBER |
|------------------------------------------------------------------------------------------------|-------------|
| Intuitive IO expansion board with 8 status inputs, 8 universal IOs and 12 relays               | PR0661      |
| Intuitive Mini IO expansion with 4 Universal Inputs and 5 relays                               | PR0663      |
| Intuitive Mini IO expansion with 4 Universal IO and 4 relays                                   | PR0663 4-4  |
| Intuitive Mini IO expansion with 4 Universal IO, 5 relays, 6 probes inputs and 4 status inputs | PR0681      |
| Plant Controller Colour Touch Display                                                          | PR0615      |
| Remote Display                                                                                 | PR0620      |
| TouchXL                                                                                        | PR0617-ID   |



## Technical Specifications

| FEATURE            | SPECIFICATION INTUITIVE                                                                                                                                                                     | SPECIFICATION MINI INTUITIVE                                                                                                                                                                |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inputs             | 8 x probe inputs<br>12 x digital inputs<br>8 x universal IO (0-10V or 4-20 mA)                                                                                                              | 6 x probe inputs<br>4 x digital inputs<br>4 x Universal IO (0-10V or 4-20 mA)                                                                                                               |
| Outputs            | 12 x relay outputs (with optional fusing – 10A Resistive Load – 5A Inductive Load)<br>8 x universal IO                                                                                      | 5 x relay outputs (with optional fusing – 10A Resistive Load – 5A Inductive Load)<br>4 x Universal IO                                                                                       |
| Connectivity       | 2 x Ethernet RJ45 Ports<br>2 x USB A Ports<br>1 x USB B Port<br>1 x CANbus Port                                                                                                             | 1 x Ethernet RJ45 Ports<br>1 x USB Host<br>1 x USB OTG<br>1 x CANbus Port                                                                                                                   |
| Stepper Drive*     | Bipolar Stepper Motor, 12-24vdc chopper drive, 8W Maximum                                                                                                                                   |                                                                                                                                                                                             |
| LCD Display        | 2.4" Full Colour TFT Graphic LCD (optional)                                                                                                                                                 | 2.4" Full Colour TFT Graphic LCD (optional)                                                                                                                                                 |
| Power              | Supply Voltage Range: 24 Vac ±10% OR 24 Vdc ±10%<br>Supply Frequency: 50 - 60 Hz ± 10%<br>Maximum Supply Current: 1.8A<br>Typical Supply Current: 0.3A                                      | Supply Voltage Range: 24 Vac ±10% OR 24 Vdc ±10%<br>Supply Frequency: 50 - 60 Hz ± 10%<br>Maximum Supply Current: 1.8A<br>Typical Supply Current: 0.2A                                      |
| Environmental      | Operating temperature range:<br>Without LCD Display: -40°C to +65°C (-40°F to +149°F)<br>With LCD Display or SRR fitted: -20°C to +65°C (-4°F to +149°F)<br>Operating Humidity: 80% Maximum | Operating temperature range:<br>Without LCD Display: -40°C to +65°C (-40°F to +149°F)<br>With LCD Display or SRR fitted: -20°C to +65°C (-4°F to +149°F)<br>Operating Humidity: 80% Maximum |
| Dimensions (HxWxD) | 280mm (L) x 122mm (W) x 67mm (H)                                                                                                                                                            | 157mm (L) x 122mm (W) x 67mm (H)                                                                                                                                                            |
| Approx. Weight     | 750 Grams                                                                                                                                                                                   | 500 Grams                                                                                                                                                                                   |

## Ordering Information

### PR06W U V W X Y Z

| PRO6 | U | SIZE      | V   | STEPPER OUTPUTS | W  | DISPLAY  | X  | FUSING   | Y     | SOFTWARE      | Z   | SOLID STATE RELAY |
|------|---|-----------|-----|-----------------|----|----------|----|----------|-------|---------------|-----|-------------------|
|      | 5 | Full Size | 0   | No Steppers     | CD | Integral | NF | No Fuses | SUP   | Superpack     | -   | No SSR            |
|      | 8 | Mini      | 2*† | 2 x Steppers    | -  | Remote   | -  | Fused    | SMI   | Multi INV     | E1  | 1 x SSR           |
|      |   |           |     |                 |    |          |    |          | STCO2 | CO2 Superpack | E2  | 2 x SSR           |
|      |   |           |     |                 |    |          |    |          |       |               | E3  | 3 x SSR           |
|      |   |           |     |                 |    |          |    |          |       |               | ▼   | ▼                 |
|      |   |           |     |                 |    |          |    |          |       |               | E12 | 12 x SSR          |

For example: PR0650 CD NF SUP E2 is a full-size controller, with no stepper outputs, integral display, non-fused, Superpack software, and 2 x solid state relays (SSRs).

\*Intuitive CO<sub>2</sub> Superpack only

†Not available for the Mini Intuitive (PR0680) series