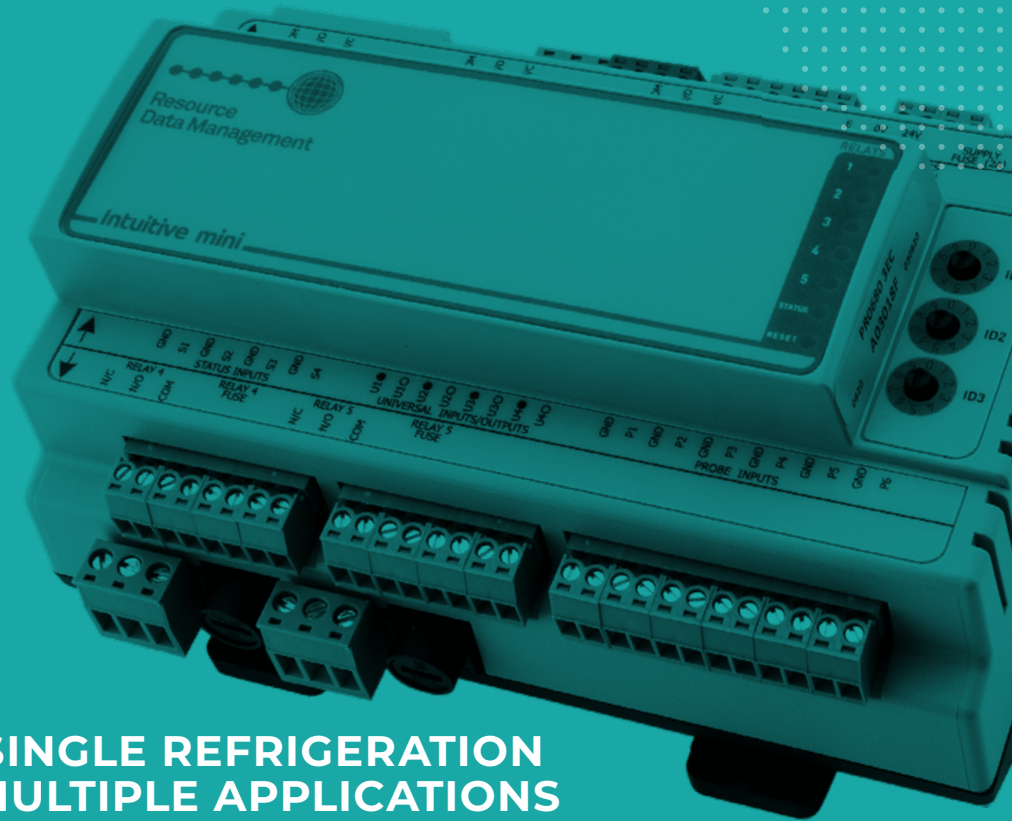


# Mini Intuitive 3 Stepper EEV Case Controller



## MULTI-EVAPORATOR SINGLE REFRIGERATION CASE CONTROL FOR MULTIPLE APPLICATIONS

Part of an extensive line of case control products by Resource Data Management (RDM), the Mini Intuitive 3 Stepper EEV Case Controller controls multi-evaporator, single refrigeration cases. It can control up to three stepper electronic expansion valves (EEV).

Built in a small-format design, it requires little space and lowers installation costs. Its base inputs and outputs (I/O) are extended by three Mini Intuitive Stepper Expansion Modules with Auto-Close, each providing a stepper output and two temperature probe inputs. The expansion module is required for the intended operation of the controller. The controller and expansion module can be purchased together in a kit, or individually for spares and replacements. For cases featuring only two valves, a kit consisting of the controller and two expansion modules is also available. Display capabilities are available using the compatible Mercury Remote Display.

The controller integrates seamlessly into the existing RDM suite of energy saving features available on control system head-end, DMTouch. It allows for remote defrost and case light scheduling, case performance monitoring, maximum operating pressure (MOP) protection and alarm monitoring, and rack shutdown support.

## Overview

The Mini Intuitive 3 Stepper EEV Case Controller provides outputs for lights, fans, defrost and alarming on a single refrigeration case, as well as control of up to three stepper EEV valves for the coordinated control of three evaporator sections. The Auto-Close feature of the Mini Intuitive Stepper Expansion Module uses supercapacitor technology to close the stepper valves upon power failure. The controller contains logic for staggered modulation of EEVs during controller start-up or after defrost to reduce the impact of liquid hammer.

Two control applications – medium temperature and low temperature case control – are pre-programmed for quick and easy setup. Adjustable control temperatures of each evaporator are monitored. Alarms are triggered according to specified over and under temperature levels. Alarm delays can be set up to prevent premature alarms.

## Key Features

- Temperature or superheat evaporator control using stepper outputs for stepper EEV control.
- Control of fans, defrost heater, and lights.
- Auto-Close feature closes stepper valves upon power failure.
- Energy-saving defrost skip algorithm.
- Maximum Operating Pressure (MOP) protection and alarm monitoring.
- Rack shutdown and recovery support.



Light Control



Defrost-skip



5 Year Warranty



Valve Control

## Technical Specifications

### 3 EEV Case Controller

FEATURE	SPECIFICATION
Inputs	6 Probe Inputs 4 Digital Inputs
Universal I/O	4 Universal IO
Outputs	5 Relay Outputs
Networking	1 Ethernet 1 CAN bus
Accessories	1 Remote Display 1 USB port 1 Micro USB OTG port
Supply Voltage Range	24 Vac $\pm$ 10% or 24 Vdc $\pm$ 10%
Supply Frequency	50 – 60 Hz $\pm$ 10%
Max. Supply Current	1.8 Amp
Typical Supply Current	0.3 Amp

## Technical Specifications

### Expansion Board (Mini Intuitive Stepper)

FEATURE	SPECIFICATION
Inputs	2 Probe Inputs
Outputs	1 Stepper Output
Networking	CAN bus



## ORDERING INFORMATION

FEATURE	SPECIFICATION
Mini Intuitive 3 Stepper EEV Case Controller Kit (PR0680 3EC, 3x PR0653)	PR0685 3EC STEP
Mini Intuitive 2 Stepper EEV Case Controller Kit (PR0680 3EC, 2x PR0653)	PR0685 2EC STEP
Intuitive Mini 3 EEV Case Controller	PR0680 3EC
Mini Intuitive Stepper Expansion Module	PR0653
Remote Display (5m cable)	PR0725