



S3C Series

Case Controls

SPORLAN



ENGINEERING YOUR SUCCESS.

The S3C Series Can Manage Cases

- Single Coil
- Multiple Coil
- Self-Contained
- Remote Rack

Control Modes

Superheat Control

- Use suction pressures and temperatures to control an EEV

Case Control

(Single or Dual Temperature)

- Use discharge or return air temperature to control EEVs and/or EEPRs

Suction Control

- Use suction pressure or temperature to control an EEPR

Control More with the S3C Series

- Defrost
- Lighting
- Fans
- Liquid Line Solenoid
- Anti-Sweat Heaters

S3C Series

Case Controls

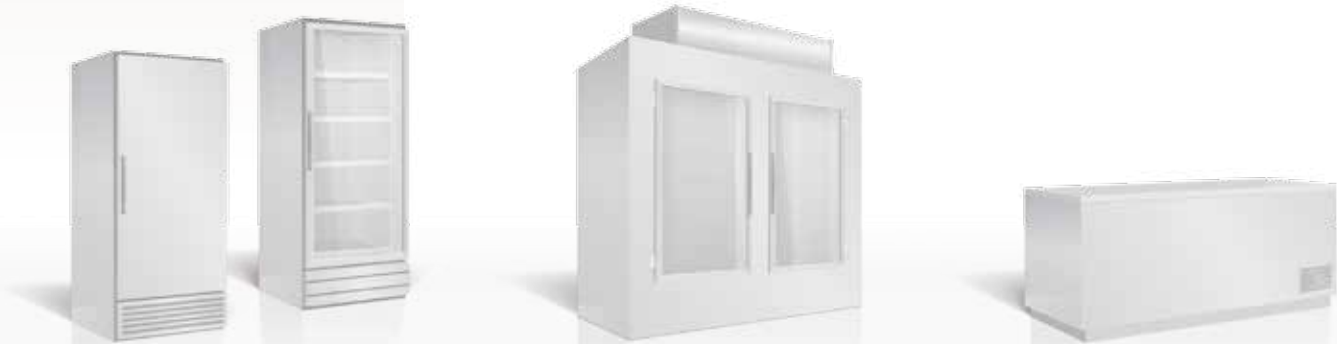


The Sporlan **S3C Series** of case control products provides safety, security, and service for remote and self contained refrigerated display appliances (single or multiple coil).

The S3C family of controls includes a **case controller, display module, and valve module** that all support open protocol communication via **BACnet and Modbus**. The system is designed to facilitate both installation and integration by the refrigerated appliance OEMs as well as retrofit into existing supermarket refrigeration control installations. When enabled, the controller provides automated configuration and network integration.

The S3C Case Control peer to peer system is capable of standalone or BAS coordinated control of up to 8 refrigerated cases per lineup. This family of controls simplifies and shortens the time required to set up new equipment or retrofit an existing system for more precise control.

The S3C Series MAKES THE CASE, helping your business do MORE business.



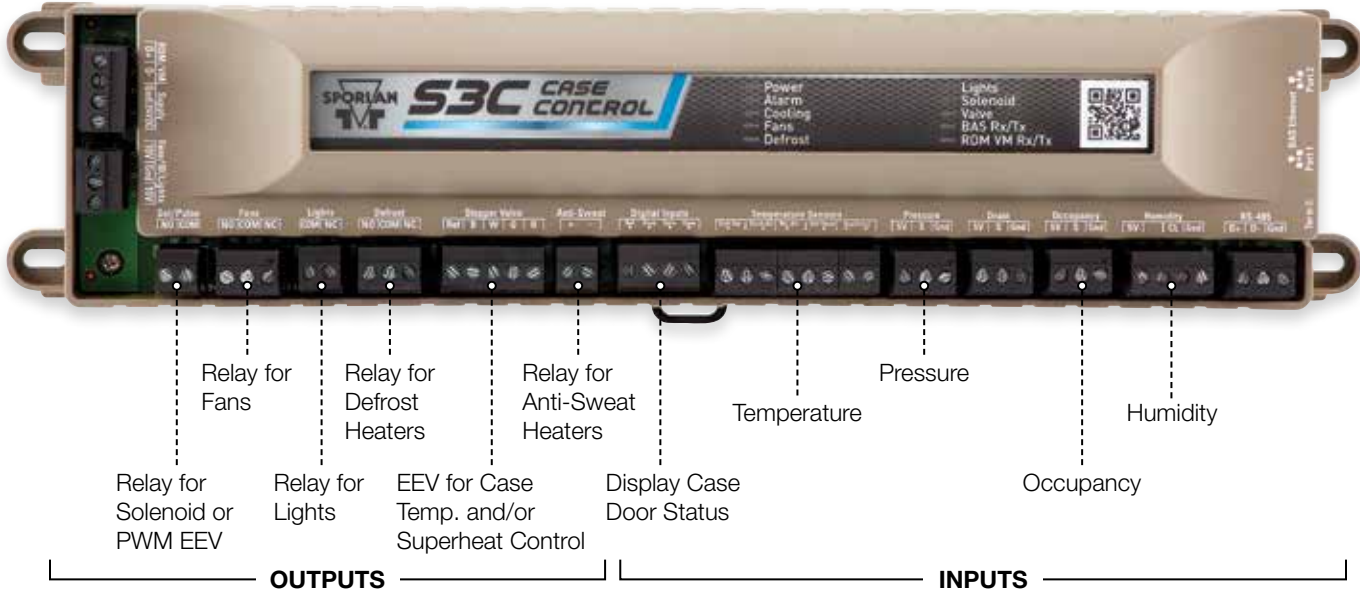
The S3C family of controls is the perfect solution for quick installati

S3C - Case Control



ITEM NUMBER 953621

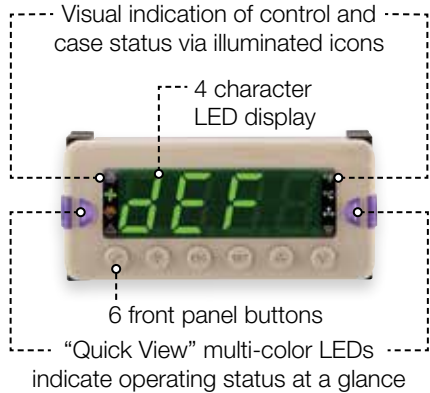
- Internal control algorithms for precise control
- Multitude of sensory inputs and controlled outputs



S3C - Display Module

ITEM NUMBER 953622

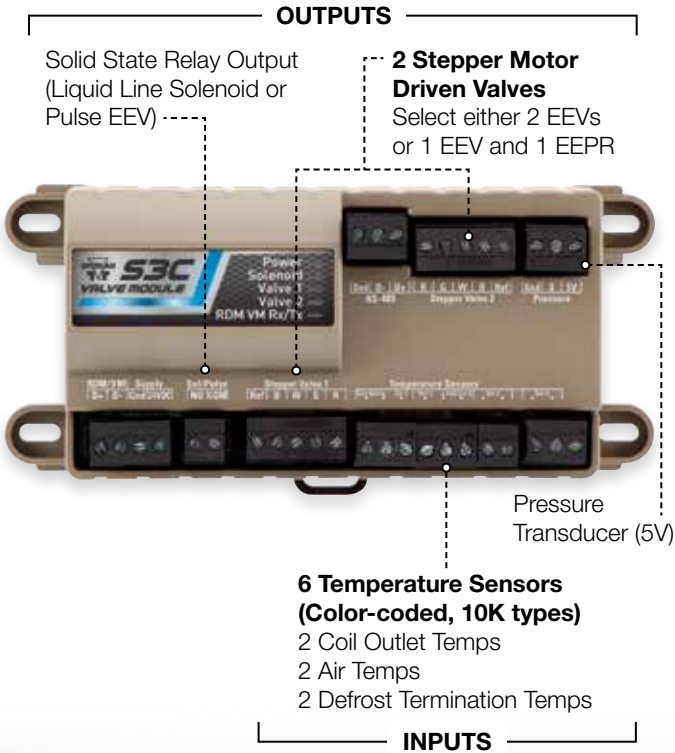
- Local user interface for the S3C Case Control system
- Navigation via a simplified and intuitive series of menus
- Password protected access to service functions
- Manual defrost initiation with password



S3C - Valve Module

ITEM NUMBER 953623

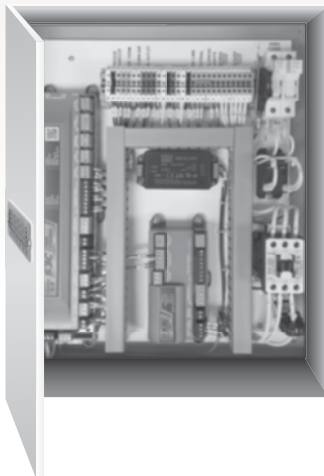
- Expands the control capabilities of the S3C Case Control
- Provides additional inputs and outputs



ons that require precise and automatic control of the complete case.

Product Features

- Two S3C Valve Modules may be powered by the S3C Case Control
- Color-coded temperature sensor wires for ease of installation
- Control step motor or pulse width modulation valves
- Bright, colored LEDs show status of case at a glance
- Modbus or BACnet communications
- Defrost or dual temperature mode via dry contact input
- Manual valve positioning available through menu
- Energy efficient system operation through accurate valve control
- No control tuning needed
- Diagnostics report issues with sensors, valves, fans, heaters, etc.
- Fail-safe operation of case under loss of communication with BAS
- Also available in fully assembled panels for retrofit applications



Product Selection

S3C Product Line

Case Control Item Number 953621	Display Module Item Number 953622	Valve Module Item Number 953623
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✓ standard

Key Features

Display	-	✓	-
Temperature Sensor (contact)	✓	-	✓
Temperature Sensor (#)	5	-	6
Pressure Transducer	1	-	1
Superheat Valves Controlled (type)	EEV (Stepper or PWM)		
Superheat Valves Controlled (#)	1 EEV / 1 PWM	0	2 EEVs / 1 PWM
Communication (Modbus and BACnet)	✓	✓	✓
Power	24V DC		
UL / FCC	✓	✓	✓
Dimensions - Inches (W x H x D)	13.6 x 3.3 x 1.8	3.0 x 1.5 x 3.5	6.8 x 3.3 x 1.8

Typical Applications

Refrigerated Display Cases	✓	✓	✓
Cold Rooms / Environmental Chambers	✓	✓	✓

Accessories

Item Description	Item Number	Notes
Temperature Probes		
10K Sensors	230076	20 ft. blue wire - Coil out
	230073	20 ft. green wire - Discharge air (or return air)
	230072	20 ft. orange wire - Defrost termination
	230075	20 ft. yellow wire - Return air
Pressure Transducers*		
PSPT0150SVSP-S	952572	0-150 psis transducer (all other refrigerants)
PSPT0300SVSP-S	952574	0-300 psis transducer (R410A)
PSPT0500SVSP-S	952576	0-500 psis transducer (R744)
PSPT0652SVSP-S	952579	0-652 psis transducer
Sensors		
OCC-360	953504	Occupancy Sensor
RTH-2301	953503	Temperature and Humidity Sensor
CT-25	953507	Current Sensor 25A to 5V DC
Transducer Cables		
PSPT000000CP20	953192	2 meter cable
PSPT000000CP50	953100	5 meter cable
Miscellaneous		
Power Supply	953444	Input: 100-240 VAC; Output: 24VDC, 60W
SMA-12	953276	Handheld digital instrument for testing step motor performance.

*Select one per control module based on refrigerant.



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