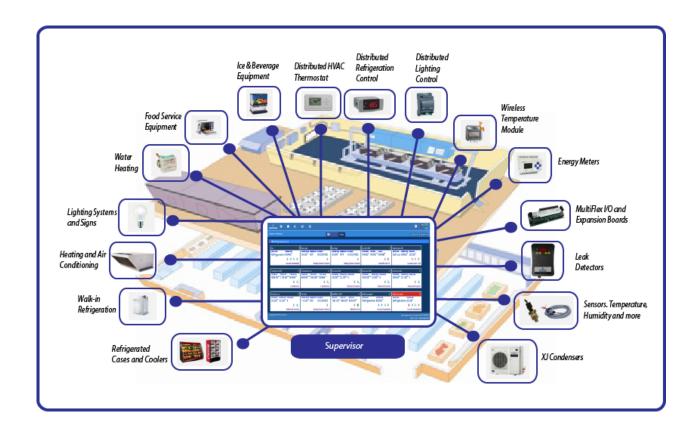
Supervisor Application Matrix

Product Information Sheet



Important Note:

The tables in the following pages are designed to give a general overview of the application capabilities of the Supervisor Controller.

Customers are cautioned that the figures in each cell of the following tables may only be interpreted as a general rule-of-thumb number. Values, where appearing in any cell, are intended to represent the designated maximum number for particular application types (as shown in rows) for each Supervisor model/series (as shown in columns), but independent of other application types. In other words, these figures are not indicative of the maximum number of combined applications that can be read by a single Supervisor controller.

The Supervisor is designed (and required) to handle a combination of multiple applications at the same time. The extent of such combinations that can be added to each Supervisor controller should only be determined by a qualified Emerson support specialist and will be governed by customized store requirements. In general, just as with computers, each additional input/memory requirement imposed on the Supervisor would reduce the memory available for other applications.



Application	Supervisor Small Format SF	Refrigeration Supervisor RXS	Refrigeration Supervisor Expanded* RXSe	Building Supervisor BXS	Building Supervisor Expanded* BXSe	Combination Supervisor CXS	Combination Supervisor Expanded* CXSe	Service Replacement SR	Site Aggregator SA
Email and Text Alarms									
Graphical Defrost Summary									
File Management									
Site Inventory									
Duplicate Application									
Customer Roles and Permissions									
Custom Summary Screens									
Ethernet, 3 Ports									
USB, 2 Ports									
SD, 1 Port, 1 GB Provided									
Site Aggregator	*	*	*	*	*	*	*	*	
Smart Alarms	*	*	*	*	*	*	*	*	
Performance Meter	*	*	*	*	*	*	*	*	
Floor Plan									
AHU Large				6	8	6	8	9	
AHU Small	4								
Analog Combiner	64	128	128	128	128	128	128	130	
Analog Sensor Control	12	64	72	64	72	24	48	80	
Anti-Sweat	4	16	64	16	48	8	16	70	
Case Control Circuit		48	64			12	24	70	
Condenser		1	2			1	2	3	
CoreSense (Comm)				31	31	31	31	40	
CoreSense Protection (Discus)		63	63	63	63	63	63	70	

Table 1 - Supervisory Control Application and System Capacity Matrix

CoreSense (Large Ref Scroll)		31	31						
CoreSense Diagnostics (ISD 2.0)		31	31	31	31	31	31	40	
Control Link ACC	8	63	63			16	16	70	
CT Drive		16	16	16	16	16	16	70	
Demand Control	1			2	2	1	1	3	
Digital Combiner	64	128	128	128	128	128	128	130	
Digital Sensor Control	12	64	72	64	72	24	48	80	
Emerson T-Stat	8			32	64	32	64	70	
Emerson T-Stat TS	8			32	64	32	64	70	
Energy Meter	8	30	30	30	30	30	30	35	
Enhanced Suction Control**		4	4			1	4	5	
Flexible Combiner	64	128	128	128	128	128	128	130	
HVAC Zone	4			32	40	6	12	45	
Irrigation	2					2	2	3	
Lighting Control	6			24	48	24	48	50	
Logging Group	12	32	32	32	32	32	32	35	
Loop/Sequence Control	8	16	24	16	28	16	28	30	
M400		16	16	16	16	16	16	70	
Modular Chiller Control		1	2						
MRLDS	24	24	24	24	24	24	24	30	
MRLDS-250	24	24	24	24	24	24	24	30	
MRLDS-450	24	24							
MultiFlex 16Al	16	16	16	16	16	16	16	16	
MultiFlex 4AO	2	16	16	16	16	16	16	16	
MultiFlex 8DO	4	16	16	16	16	16	16	16	
MultiFlex 8RO	16	32	32	32	32	32	32	32	
MultiFlex ARTC/ RTU				32	32	32	32	32	
MultiFlex ESR		31	31			31	31	31	
MultiFlex RCB/ RBC-P				64		32	32	64	
RLDS	1	16	16	16	16	16	16	20	
Standard Circuit	6	48	64			12	32	70	
Standard Suction Control**		4	4			1	4	5	
TD Condenser Fan Control		64	64	16	28	16	28	70	

Table 1 - Supervisory Control Application and System Capacity Matrix

Time Schedule	8	64	64	64	64	16	32	70	
Utility Monitoring	8	16	16	32	64	8	16	35	
Wireless Gateway	1	1	1	1	1	1	1	1	
Wireless Module	99	99	99	99	99	99	99	99	
ECB-VAV				25	25	25	25		

Table 1 - Supervisory Control Application and System Capacity Matrix

Supervisor I/O Network (RS-485)

Specified wiring: Belden #8761 (non-plenum), Belden #82761 and #88761 (plenum)

Application	Supervisor Small Format SF	Refrigeration Supervisor RXS	Refrigeration Supervisor Expanded* RXSe	Building Supervisor BXS	Building Supervisor Expanded* BXSe	Combination Supervisor CXS	Combination Supervisor Expanded* CXSe	Service Replacement SR
4AO	2	16	16	16	16	16	16	16
8RO	16	32	32	32	32	32	32	32
8DO	4	16	16	16	16	16	16	16
16Al	16	16	16	16	16	16	16	16
MultiFlex CUB		31	31				31	31
MultiFlex ESR		31	31			31	31	31
MultiFlex RCB				64	64	32	64	64
MultiFlex RTU/ARTC				32	32	32	32	32

Table 2 - Supervisory Control I/O Network RS-485

MODBUS Network (RS-485)

(Specified wiring: Belden 8641(24 AWG, 300V, Part numbers 135-8641); Belden 8761 (22 AWG, 300 V, not stocked by Emerson; or a 600V-shielded 22 AWG equivalent, part number 135-0600) supporting a maximum cable distance of 4,000 ft (1,219 m) between the Supervisor and end-device. Belden 9855 may be used as an alternative in noisy environments, and is not recommended in other situations.

Application	Supervisor Controller Small Format SF	Refrigeration Supervisor RXS	Refrigeration Supervisor Expanded* RXSe	Building Supervisor BXS	Building Supervisor Expanded* BXSe	Combination Supervisor CXS	Combination Supervisor Expanded* CXSe	Service Replacement SR
Control Link® ACC	8	63	63			16	16	70
CT Drive		16	16	16		16	16	20
CoreSense (Comm)		63	63	63	63	63	63	70

Table 3 - MODBUS Network RS-485

^{**}The number shown for the Supervisor controllers indicates the total number of Suction Group applications available. A controller can support any combination of standard Suction Groups and Enhanced Suction Groups that do not exceed the total number for either type. For example, an RX supports two (2) Enhanced Suction Controls and two (2) Standard Suction Controls (a total of 4) or three (3) Enhanced Suction Controls and one (1) Standard Suction Control (a total of 4).

CoreSense Protection (Discus)		63	63	63	63	63	63	70
CoreSense Large Ref Scroll (K5)		31	31			31	31	31
CoreSense Diagnostics (ISD 2.0)		31	31	31	31	31	31	31
Emerson Energy Meter	8	30	30	30	30	30	30	40
Emerson T-Stat (EOL)	8			32	64	32	64	70
IPRO-DAC				32	50	32	32	55
RLDS	1	16	16	16	16	16	16	20
M400		16	16	16		16	16	20
MRLDS-250	24	24	24	24	24	24	24	30
MRLDS-450	24	24	24	24	24	24	24	30
Wireless Gateway	1	1	1	1	1	1	1	1
XR35_2.6, 5.6	32	99	99			99	99	99
XR75_2.6, 5.6	32	99	99			99	99	99
XR75_Case Display	32	99	99			99	99	99
XM670_3.4		99	99			99	99	99
XM678_2.5, 2.8		99	99			99	99	99
XM679_3.4, 4.2		99	99			99	99	99
XEV22_1.1, 1.5		99	99			99	99	99
XC645_2.5		99	99			99	99	99
XJ Condensing Unit	8	8	8	8	8	8	8	8

Table 3 - MODBUS Network RS-485

^{**} Emerson's Supervisor supports four independent MODBUS networks – so the user can have multiple MODBUS addresses on the different networks. However, the total number of devices in both networks combined, cannot exceed 99.



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