TS-R Series

TS-R… RWF5 Load Controller Enclosures

Description

TS-R… series RWF5 enclosures provides accurate PID loop control for specific applications such as modulating burner/boiler control application, water level, heat recovery, makeup air units, etc. The RWF55 provides a RS485 Modbus RTU communication port allowing the RWF55 control to communicate with a Building Management System (BMS) or function as an integral part of a PLC or BMS based lead/lag boiler room management system.

Each TS-R… enclosure contains a pre-mounted RWF5 in an enclosure and is prewired to field terminals The field terminals allow for quick wiring to field devices such as a SKB/C/D actuators, pressure transmitters, differential pressure transmitters, etc.

Flexible communication interface options to the building management system (BMS) provide streamlined data collection, monitoring and control.

Standard Features

- RWF50 or RWF55 enclosures
- Field connection terminals
- Analog input/output connections
  - Three analog inputs per RWF55
  - One analog input per RWF50
  - One Analog output per RWF
- One dry contact for application start stop per RWF5
- One dry contact for application alarm per RWF55
- One PID loop controller per RWF5
- Various alarm function options for each RWF55
- Degree F or Degree C display for temperature applications
- Load control compatible with SCC Master Panel Lead Lag system when no LMV is present

Application

TS-R… RWF5 kits are used as load controller or PID controller for a system requiring external control.
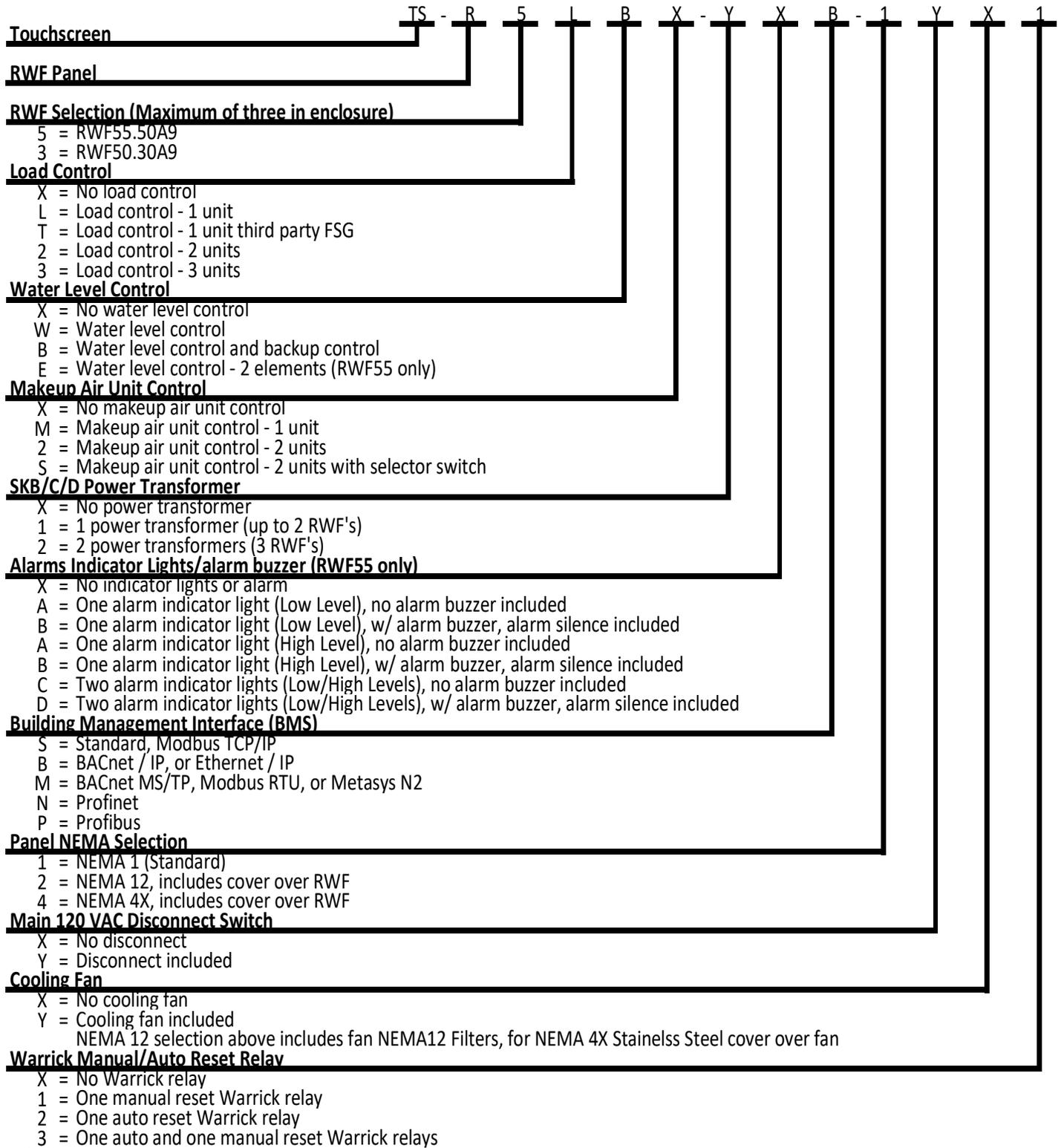
Components

All TS-R… enclosure include the following components:

- RWF50 or RWF55 load controllers
- Branch circuit protection
- Interconnect terminals for field wiring

The following optional features are available:
- Operation and alarm indicator lights
- 24VAC transformer for SKB/C/D actuators
- Enclosure disconnect
- Cooling fan
- Manual or automatic reset Warrick relays for low water cut off
- Modbus RTU RS485 BMS communication with an RWF55
- BMS communications other than Modbus RTU RS485

Product Part Numbers

TS - R 5 L B X - Y X B - 1 Y X 1

Touchscreen

RWF Panel

RWF Selection (Maximum of three in enclosure)
  5 = RWF55.50A9
  3 = RWF50.30A9

Load Control
  X = No load control
  L = Load control - 1 unit
  T = Load control - 1 unit third party FSG
  2 = Load control - 2 units
  3 = Load control - 3 units

Water Level Control
  X = No water level control
  W = Water level control
  B = Water level control and backup control
  E = Water level control - 2 elements (RWF55 only)

Makeup Air Unit Control
  X = No makeup air unit control
  M = Makeup air unit control - 1 unit
  2 = Makeup air unit control - 2 units
  S = Makeup air unit control - 2 units with selector switch

SKB/C/D Power Transformer
  X = No power transformer
  1 = 1 power transformer (up to 2 RWF's)
  2 = 2 power transformers (3 RWF's)

Alarms Indicator Lights/alarm buzzer (RWF55 only)
  X = No indicator lights or alarm
  A = One alarm indicator light (Low Level), no alarm buzzer included
  B = One alarm indicator light (Low Level), w/ alarm buzzer, alarm silence included
  A = One alarm indicator light (High Level), no alarm buzzer included
  B = One alarm indicator light (High Level), w/ alarm buzzer, alarm silence included
  C = Two alarm indicator lights (Low/High Levels), no alarm buzzer included
  D = Two alarm indicator lights (Low/High Levels), w/ alarm buzzer, alarm silence included

Building Management Interface (BMS)
  S = Standard, Modbus TCP/IP
  B = BACnet / IP, or Ethernet / IP
  M = BACnet MS/TP, Modbus RTU, or Metasys N2
  N = Profinet
  P = Profibus

Panel NEMA Selection
  1 = NEMA 1 (Standard)
  2 = NEMA 12, includes cover over RWF
  4 = NEMA 4X, includes cover over RWF

Main 120 VAC Disconnect Switch
  X = No disconnect
  Y = Disconnect included

Cooling Fan
  X = No cooling fan
  Y = Cooling fan included
      NEMA 12 selection above includes fan NEMA12 Filters, for NEMA 4X Stainelss Steel cover over fan

Warrick Manual/Auto Reset Relay
  X = No Warrick relay
  1 = One manual reset Warrick relay
  2 = One auto reset Warrick relay
  3 = One auto and one manual reset Warrick relays

10/23/2023

Specifications

		RWF50… Enclosure	RWF55… Enclosure
Physical Characteristics	Main power	110-240 VAC	110-240 VAC
	Frequency	60-50 Hz	60-50 Hz
	RWF Power	120VAC	120VAC
	Power Consumption RWF with 40 VA Transformer	≤ 56VA	≤ 60VA
	Power Consumption RWF without 40 VA Transformer	16VA	20VA
	Dry Contacts	1 Amps	2 Amps
Operating Environment	Operating Temperature	-4 to 122 °F [-20 to 50 °C]	-4 to 122 °F [-20 to 50 °C]
	Humidity	Max. 90%, No condensation	Max. 90%, No condensation
	NEMA Rating (Standard)	NEMA 1	NEMA 1
	NEMA Rating (Optional)	NEMA 12/4X	NEMA 12/4X

Connections

RWF55 for load control:
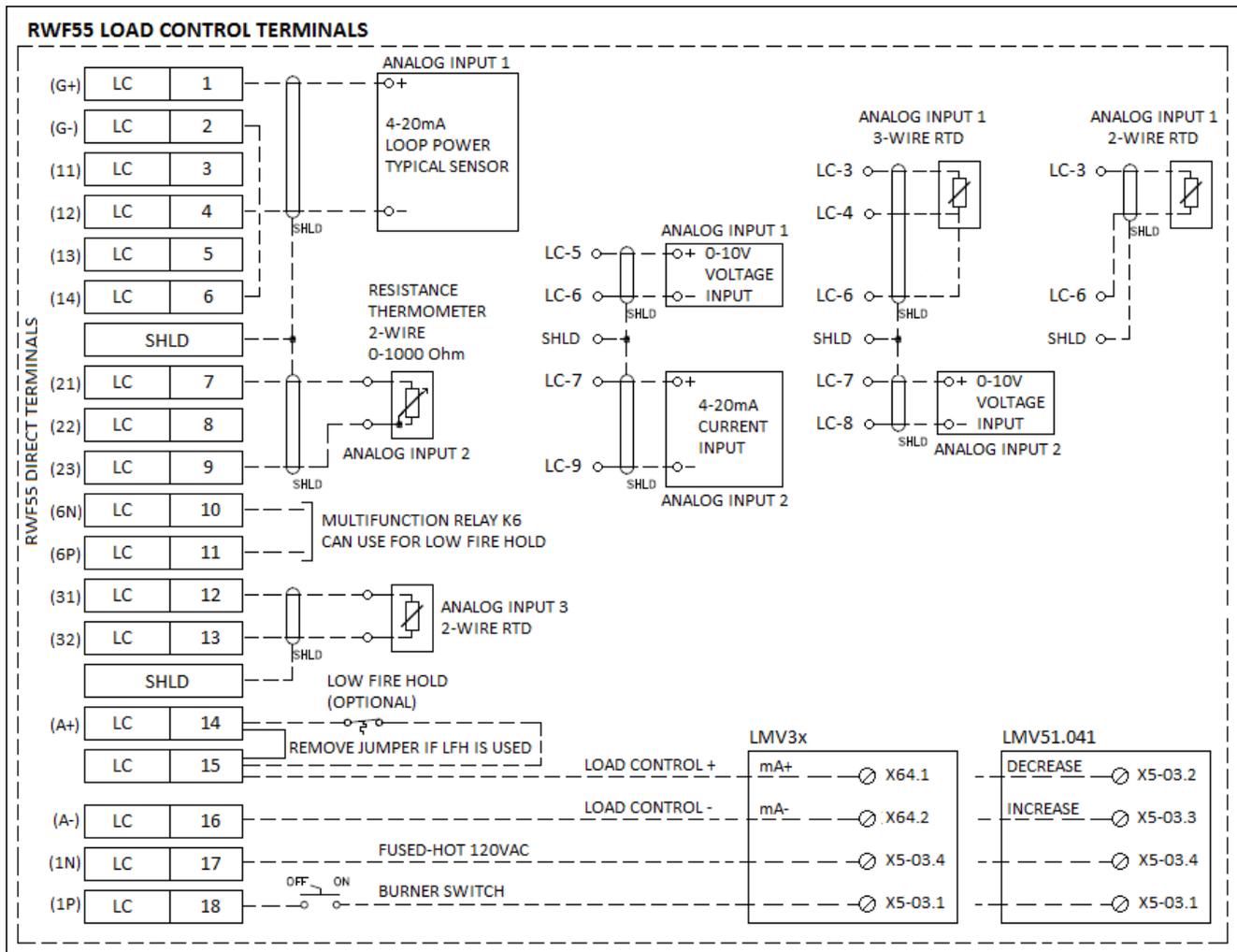
Connections (continued)

RWF55 for water level control:
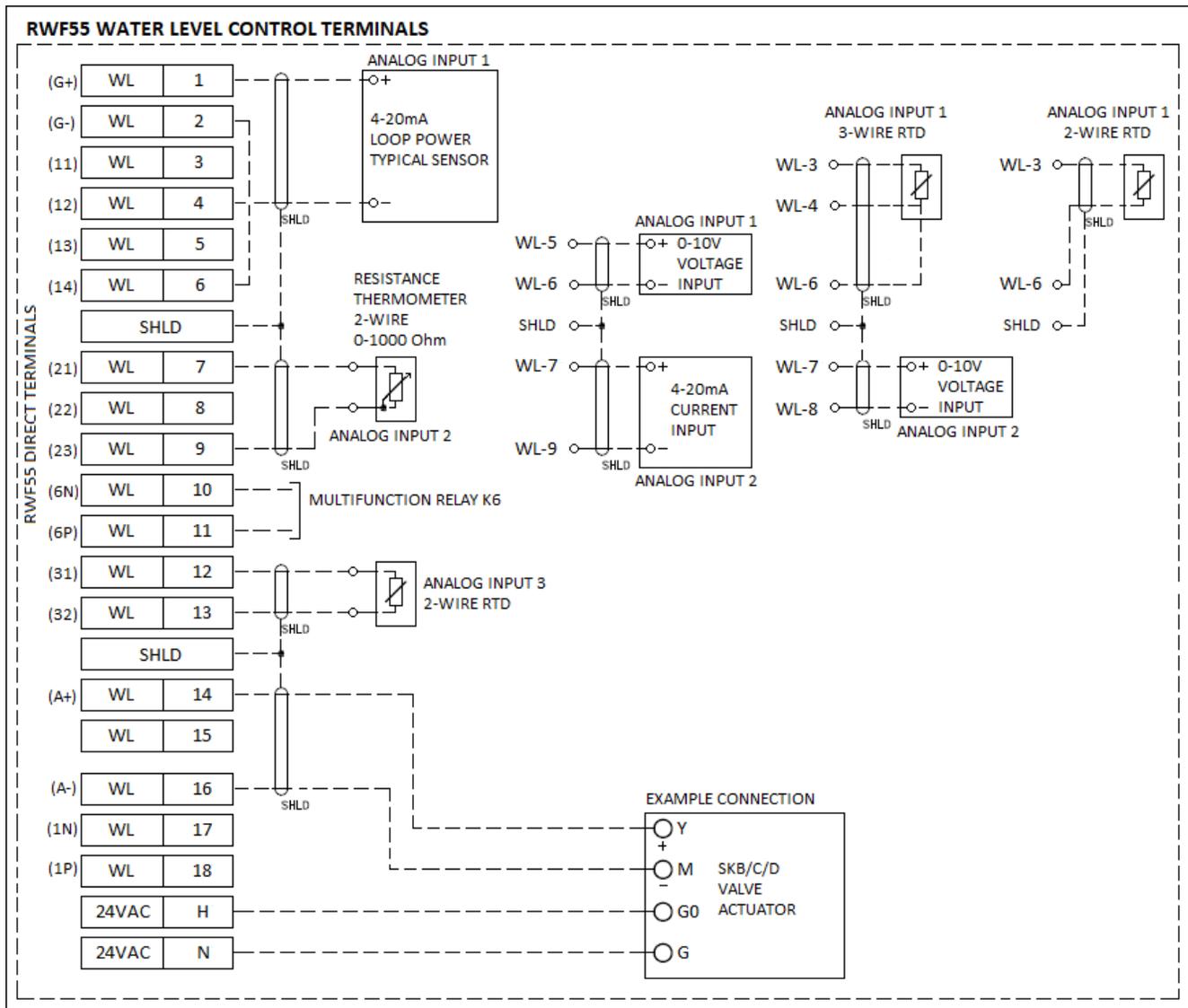
Connections (continued)

RWF55 for backup water level control:
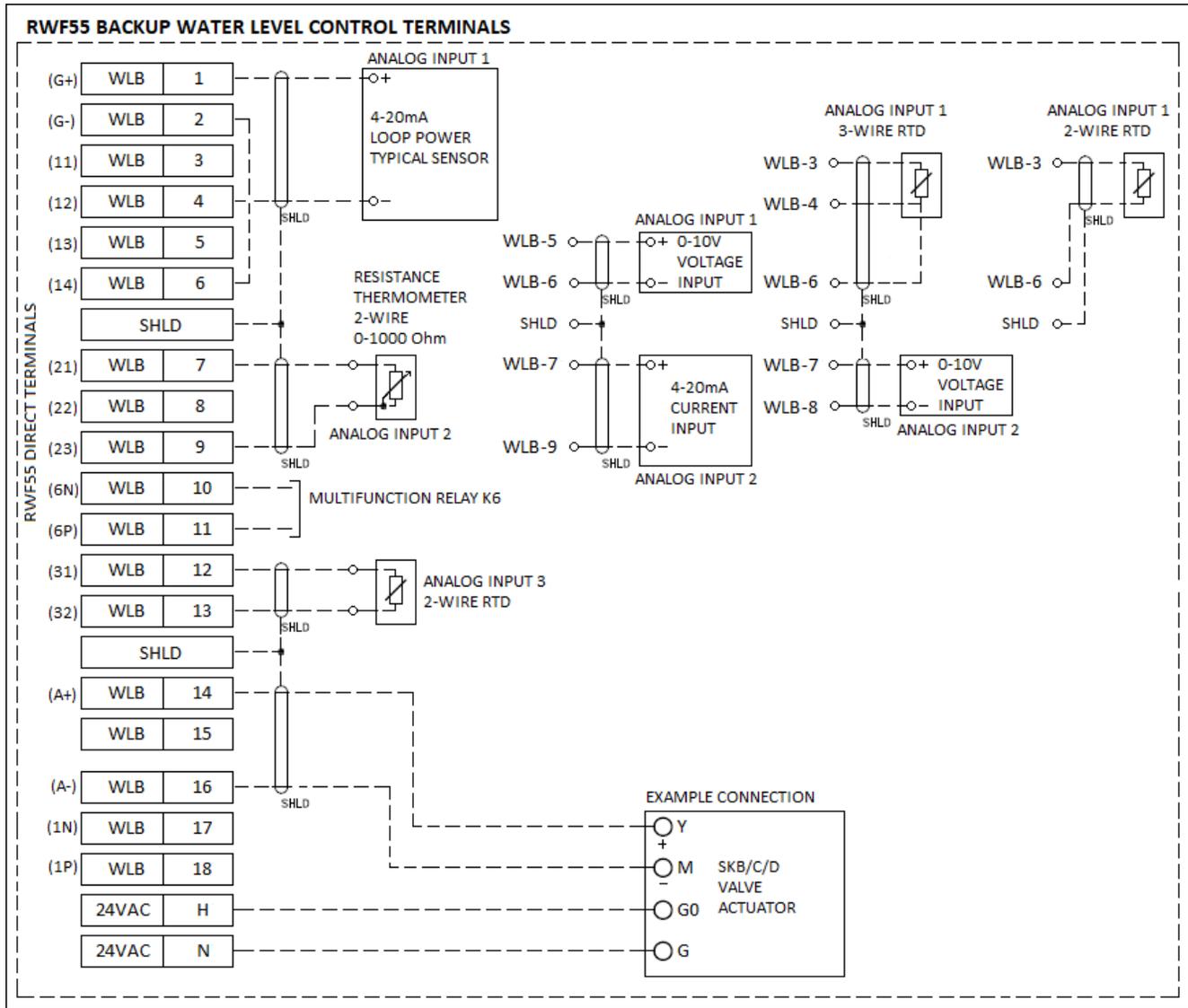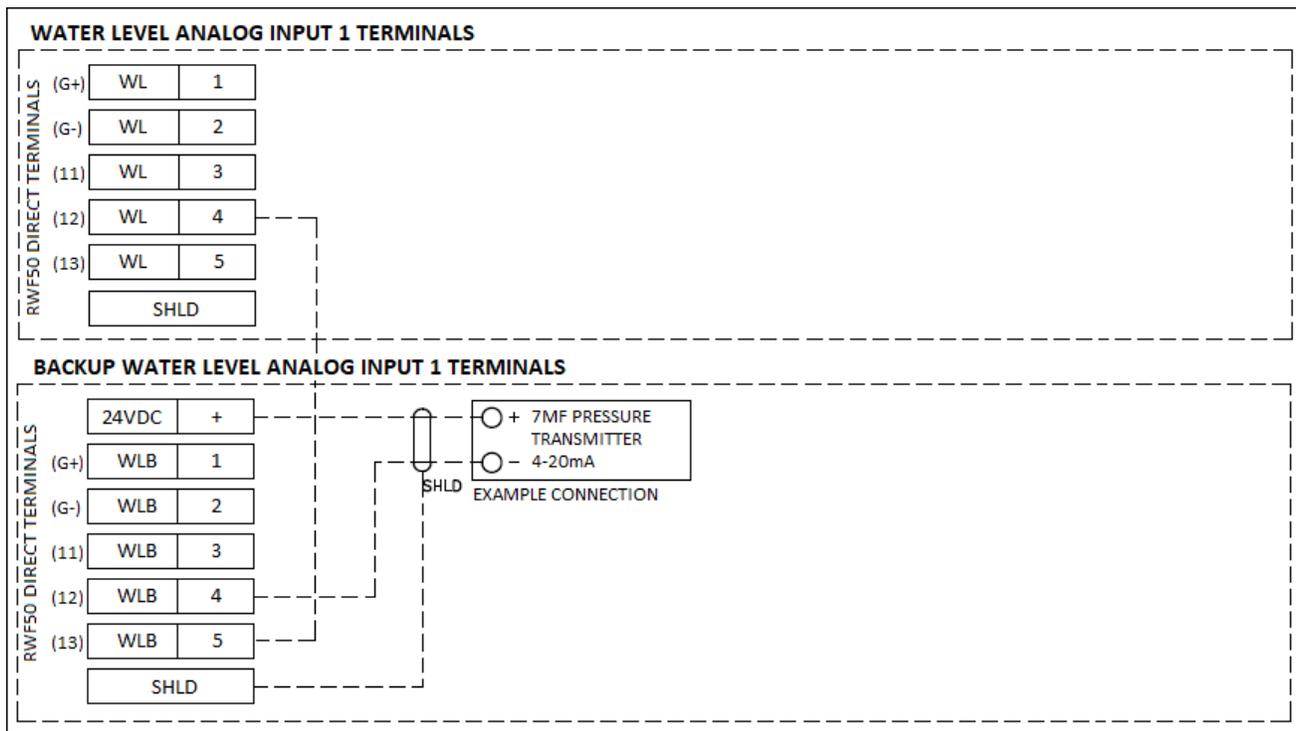
Connections (continued)

RWF55 differential pressure transmitter connections for water level and backup water level control:

WATER LEVEL ANALOG INPUT 1 TERMINALS

RWF55 DIRECT TERMINALS

(G+)	WL	1
(G-)	WL	2
(11)	WL	3
(12)	WL	4
(13)	WL	5
(14)	WL	6
	SHLD	

BACKUP WATER LEVEL ANALOG INPUT 1 TERMINALS

EXAMPLE CONNECTION

RWF55 DIRECT TERMINALS

	24VDC	+
(G+)	WLB	1
(G-)	WLB	2
(11)	WLB	3
(12)	WLB	4
(13)	WLB	5
(14)	WLB	6
	SHLD	

+ 7MF PRESSURE
TRANSMITTER
− 4-20mA

SHLD
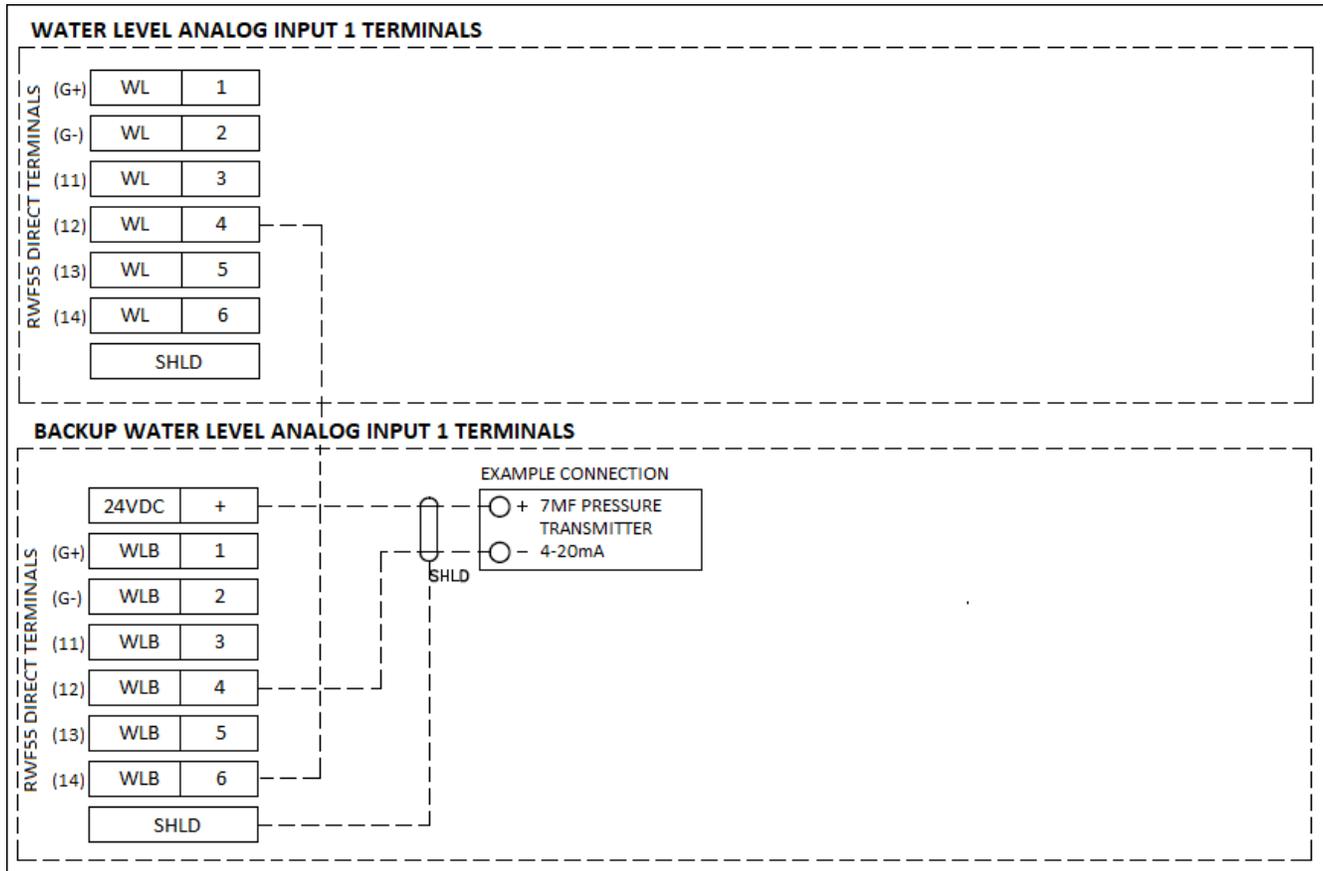
Connections (continued)

RWF55 for a makeup air unit:
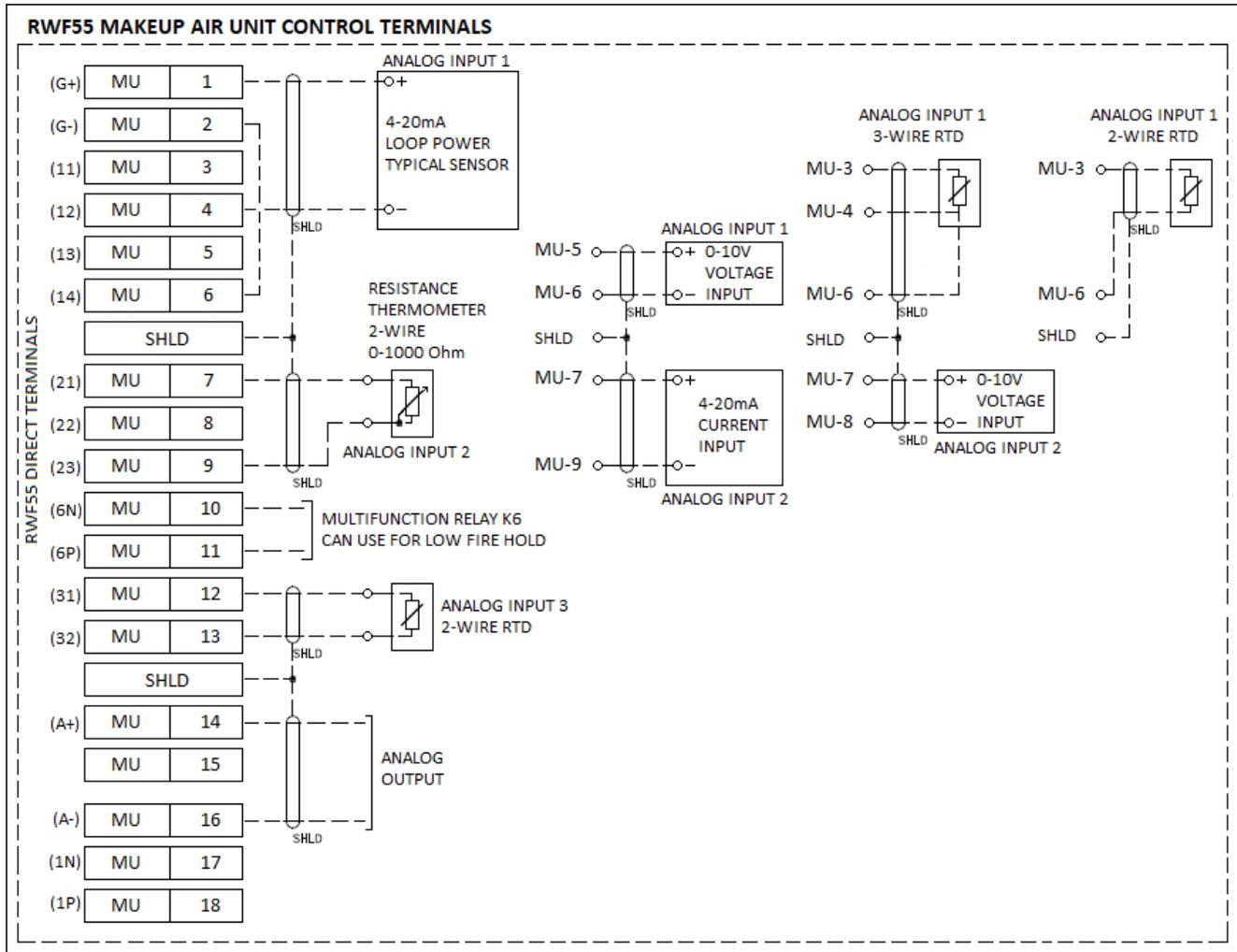
Connections (continued)

RWF50 for load control:
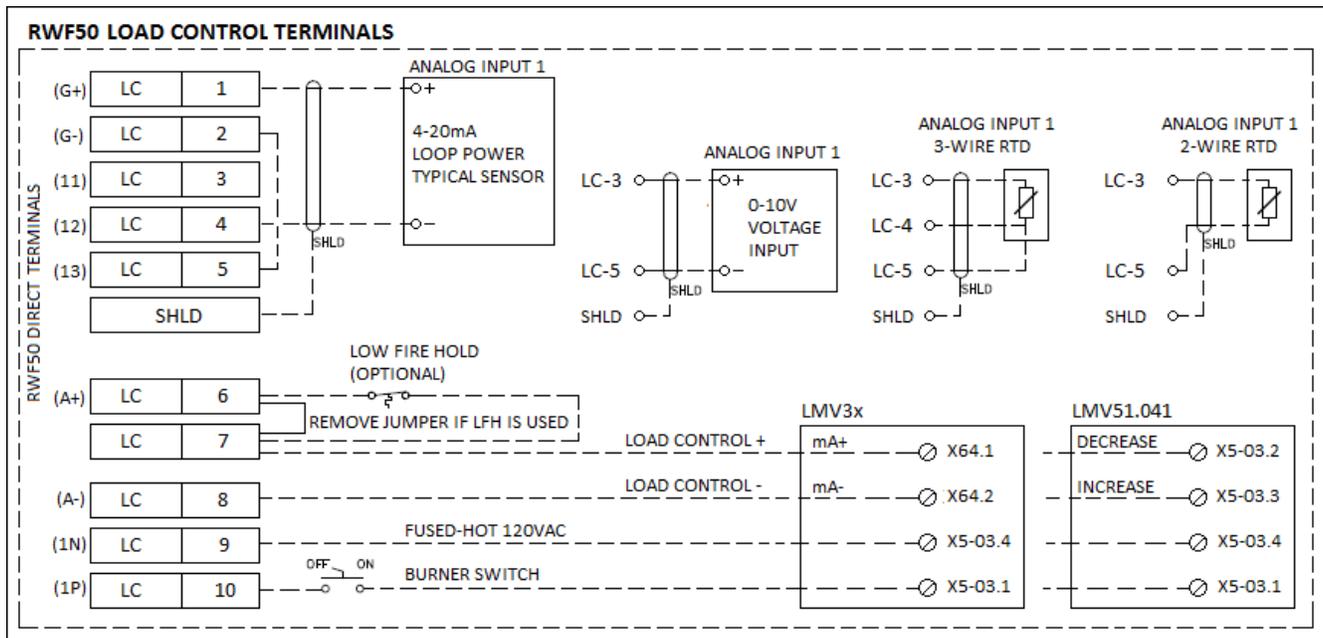
RWF50 for water level:
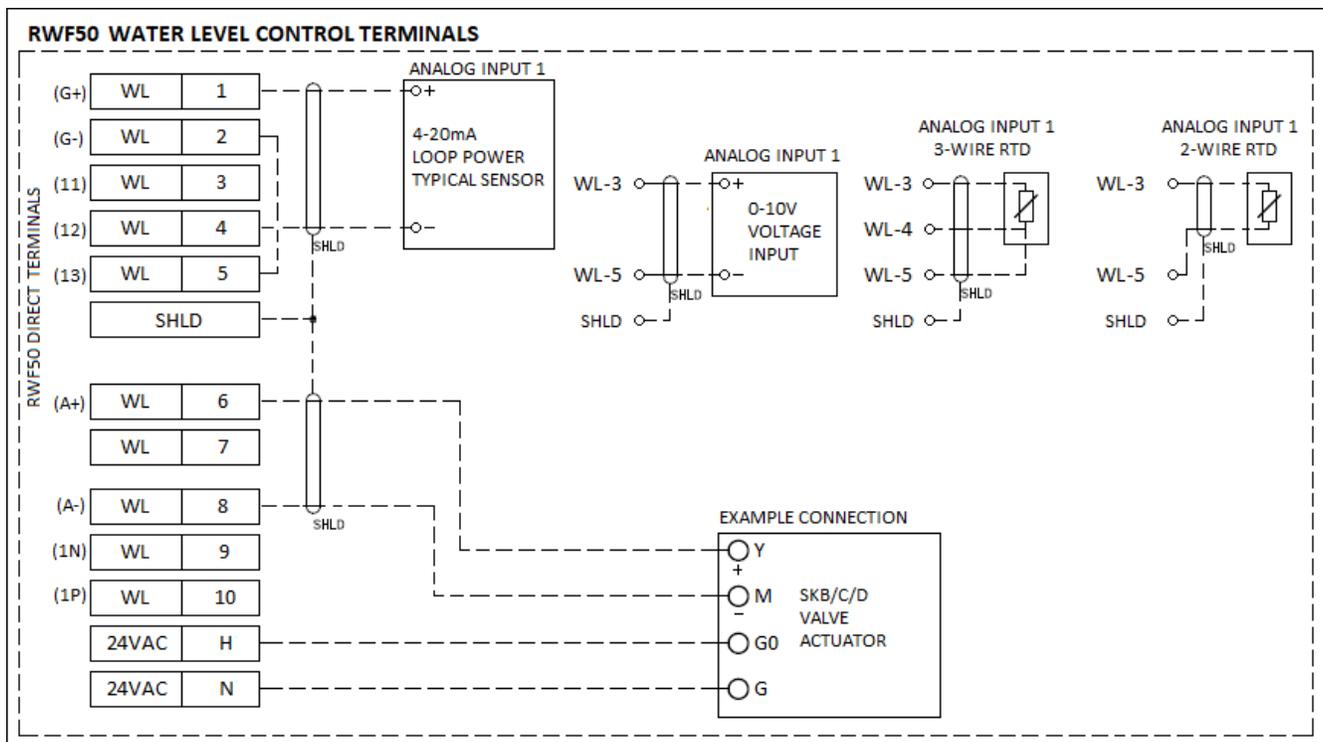
Connections (continued)

RWF50 for backup water level:
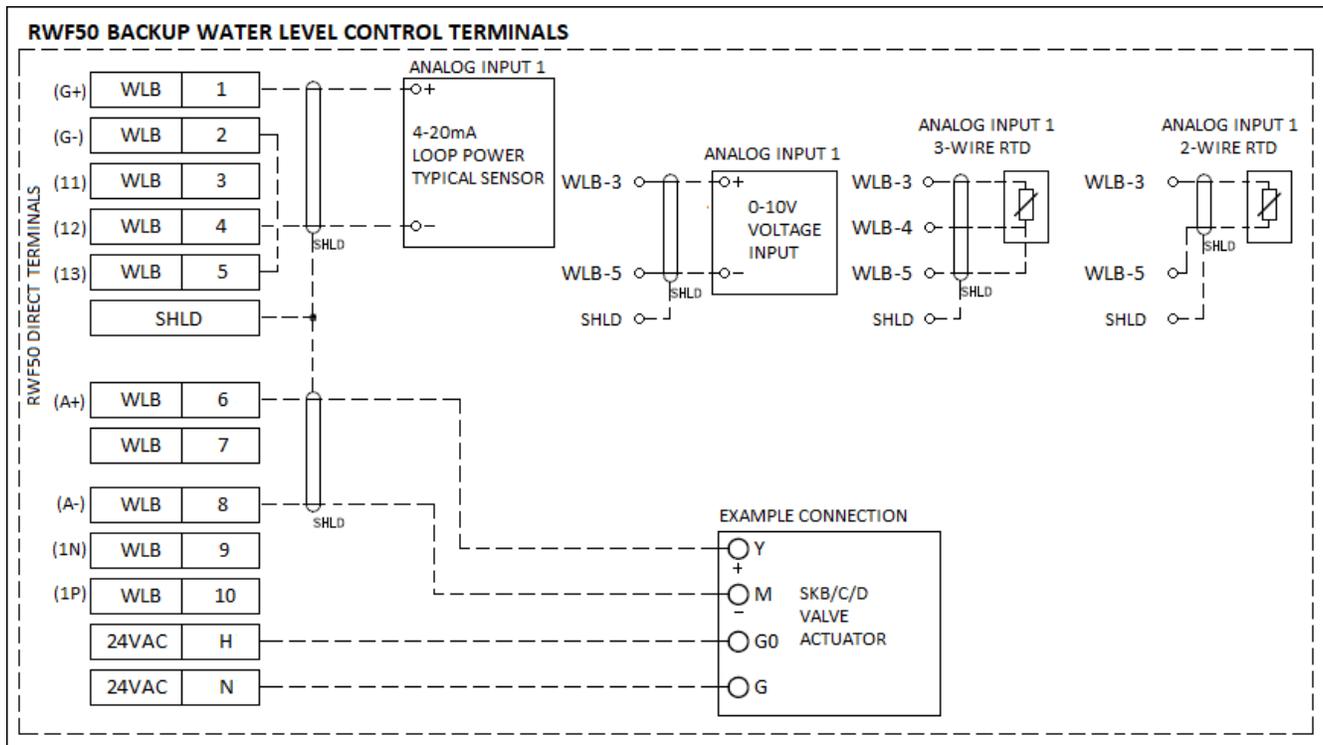
RWF50 differential pressure transmitter connections for water level and backup water level control:

Connections (continued)

RWF50 as a makeup air unit:
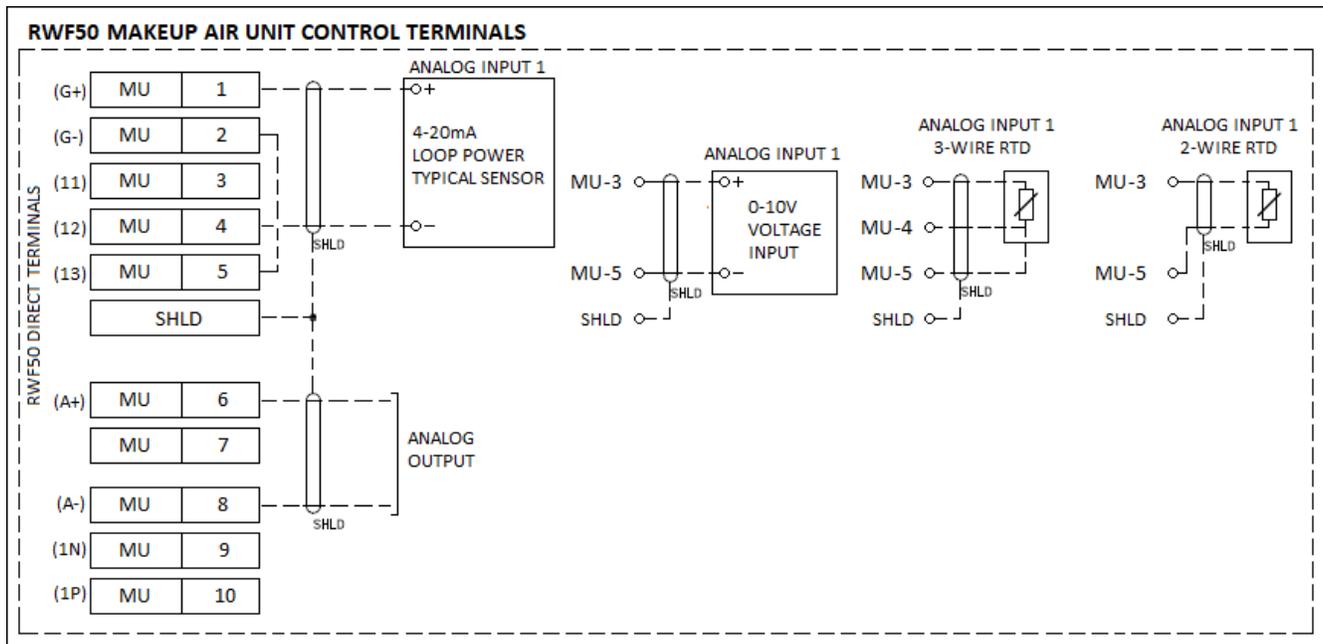
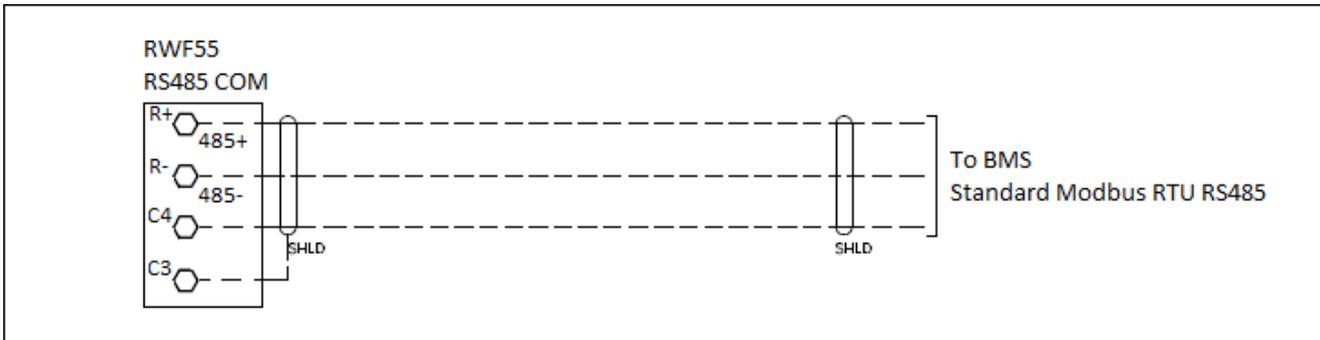Manual reset for a Warrick relay used for low water cut off:
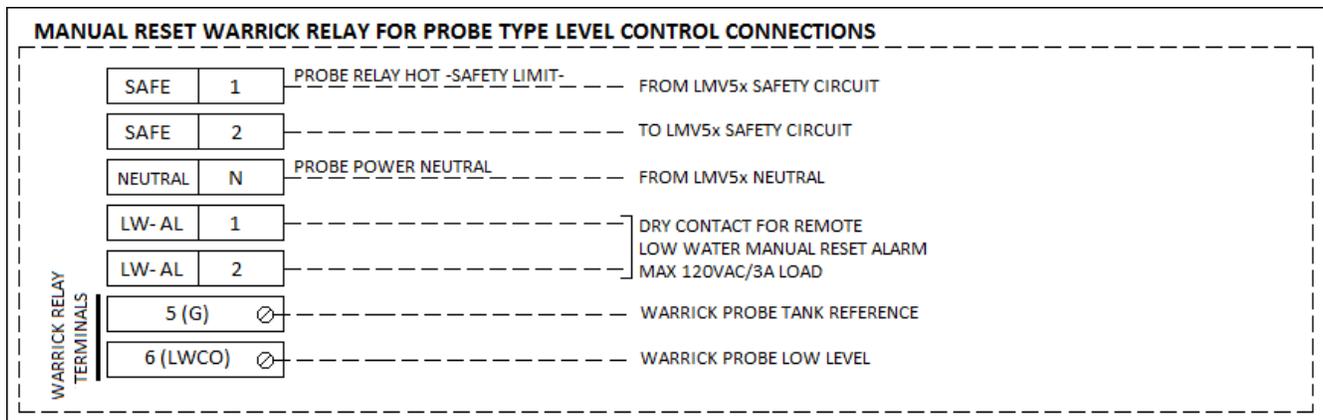
Connections (continued)

Automatic reset for a Warrick relay used for low water cut off:


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AUTO RESET WARRICK RELAY FOR PROBE TYPE LEVEL CONTROL CONNECTIONS

    RECY      1     PROBE RELAY HOT -SAFETY LIMIT-         FROM LMV5x RECYCLE CIRCUIT

    RECY      2                                            TO LMV5x RECYCLE CIRCUIT

   NEUTRAL    N     PROBE POWER NEUTRAL                    FROM LMV5x NEUTRAL

   LW- AL     3                                            DRY CONTACT FOR REMOTE
                                                           LOW WATER MANUAL RESET ALARM
   LW- AL     4                                            MAX 120VAC/3A LOAD

            5 (G)                                          WARRICK PROBE TANK REFERENCE

            6 (LWCO)                                       WARRICK PROBE LOW LEVEL
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WARRICK RELAY TERMINALS
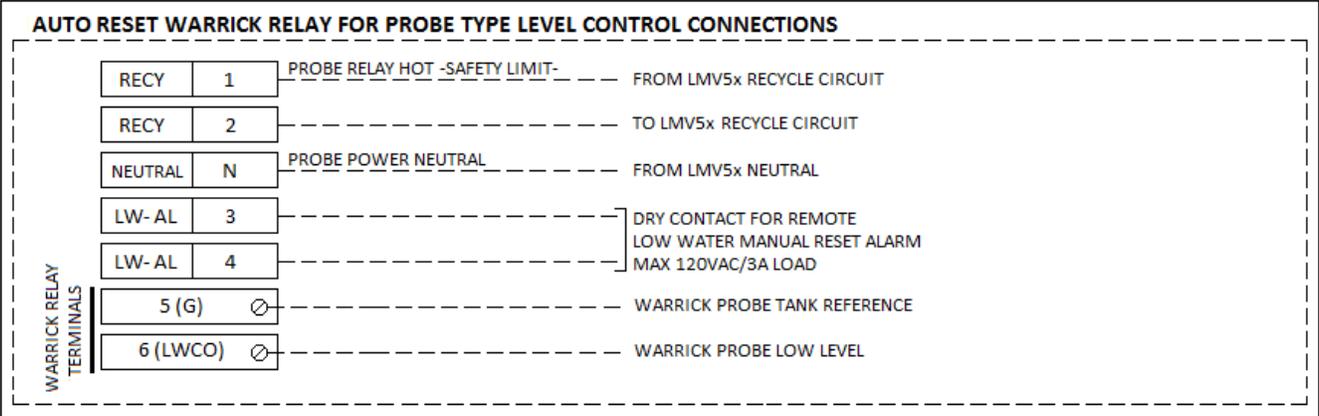
Connections (continued)

Standard modbus RTU RS-485:

One RWF55 with ProtoAir (N2 Johnson, BACnet MS/TP, Modbus RTU, BACnet/IP, EtherNet/IP, or Modbus TCP/IP)
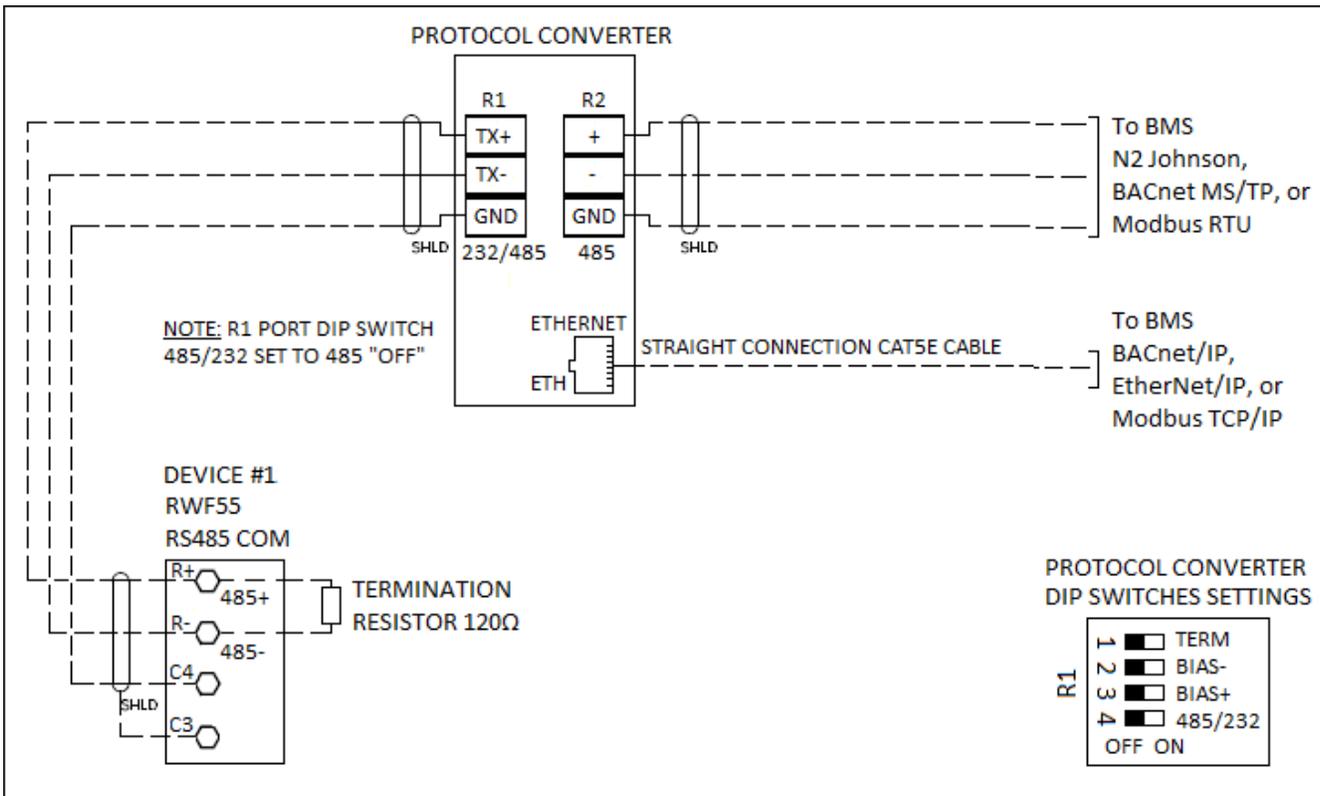
Connections (continued)

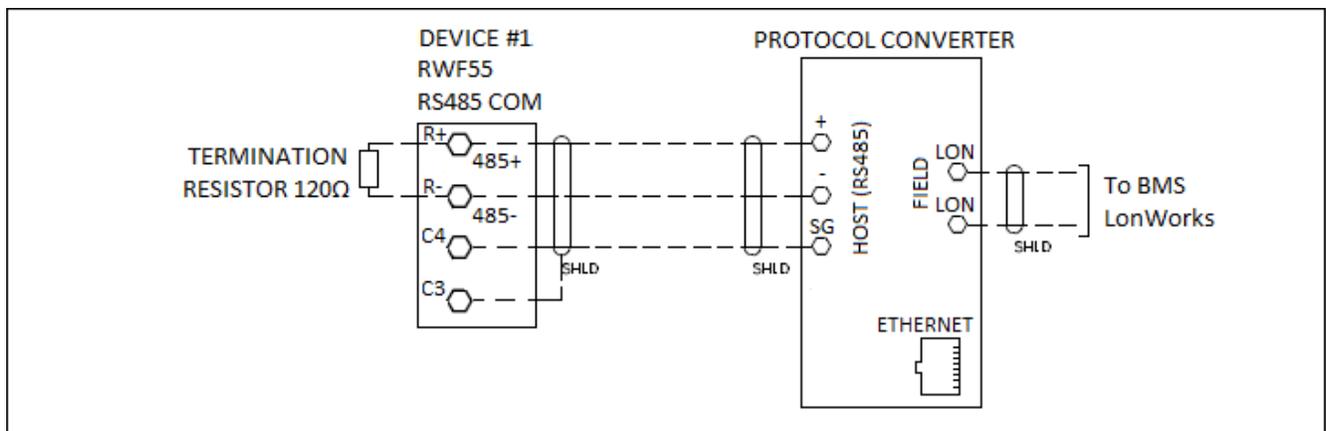Two RWF55s with ProtoAir (N2 Johnson, BACnet MS/TP, Modbus RTU, BACnet/IP, EtherNet/IP, or Modbus TCP/IP)
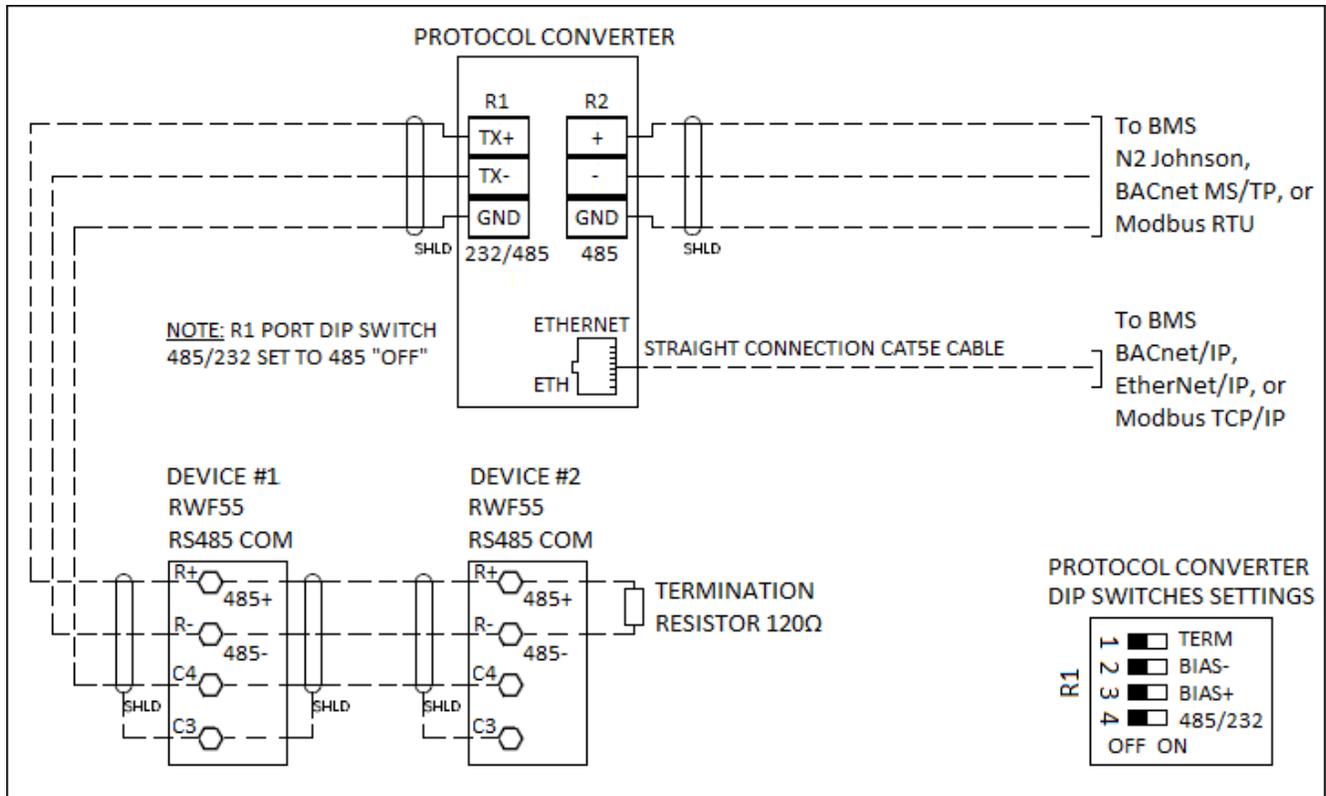
Connections (continued)

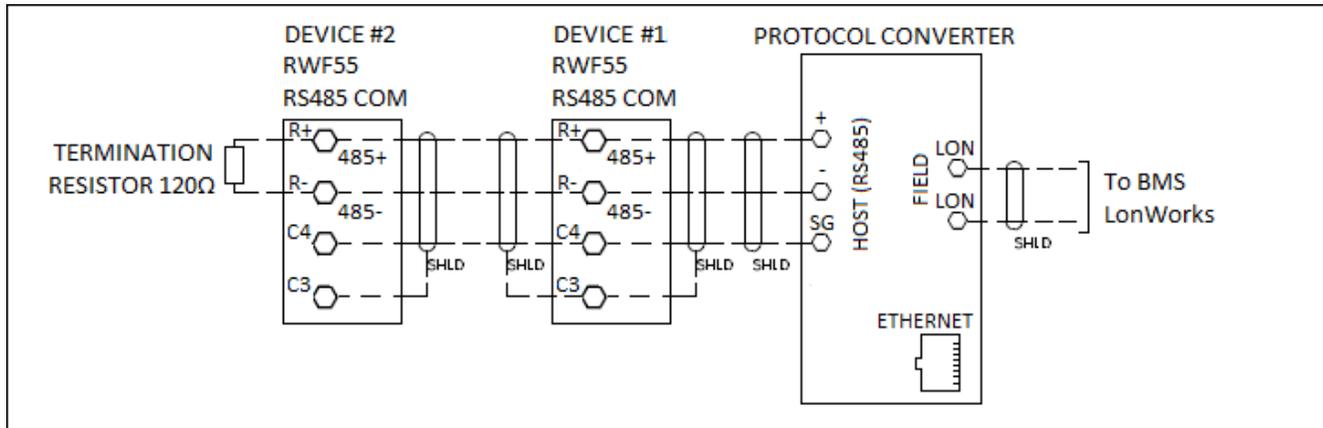Three RWF55s with ProtoAir (N2 Johnson, BACnet MS/TP, Modbus RTU, BACnet/IP, EtherNet/IP, or Modbus TCP/IP)
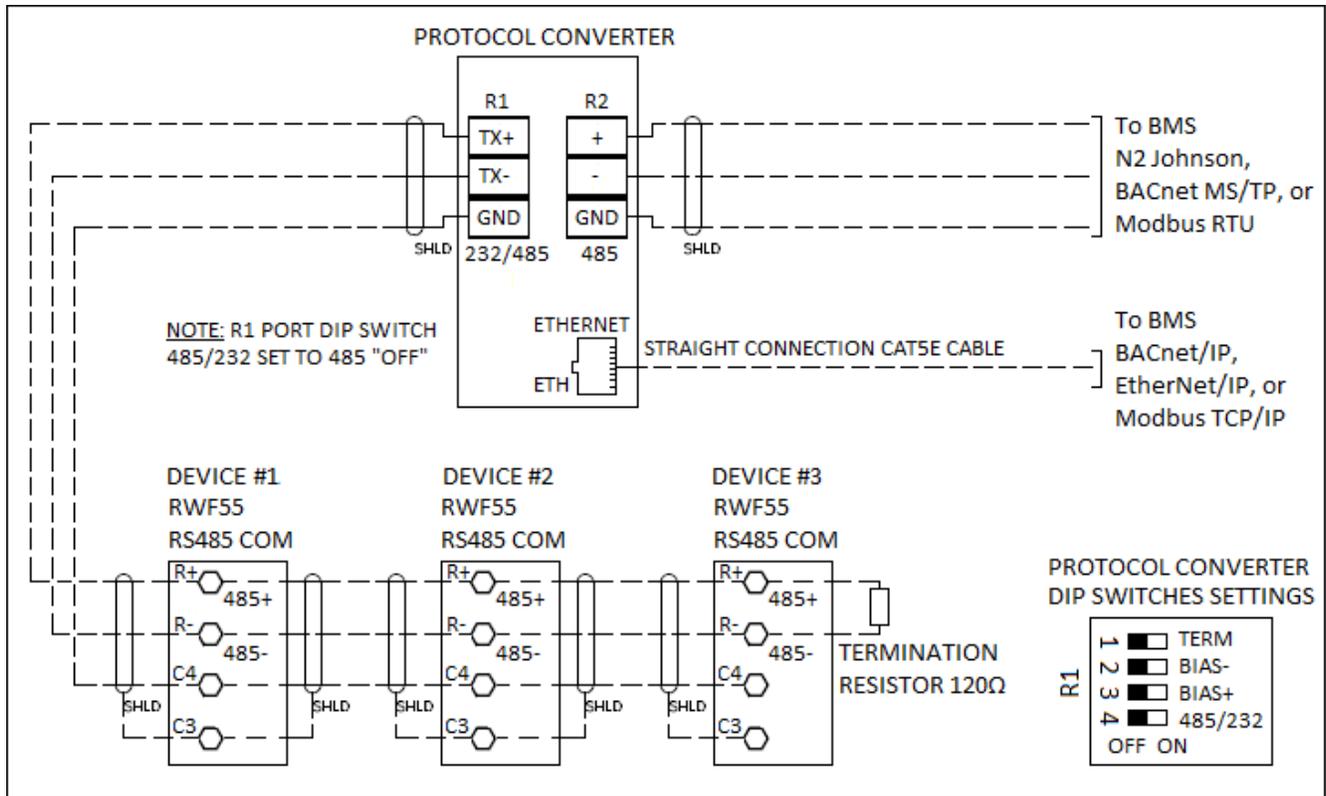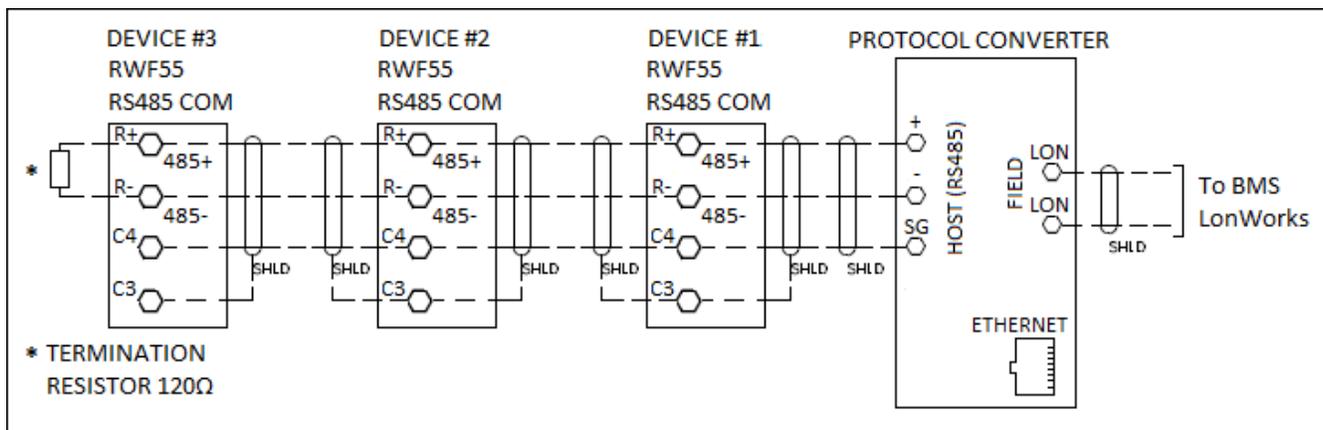

One RWF55 with ProtoNode (Lonworks)

Connections (continued)

Two RWF55s with ProtoNode (Lonworks)

Three RWF55s with ProtoNode (Lonworks)

Parts Descriptions

A	Enclosure	Standard Component		Y	24 VAC SKB/C or D Transformer Terminals	SKB/C or D Transformer
B	Disconnect Handle	Standard Component		Z	24 VAC SKB/C or D Transformer	(2) SKB/C or D Transformers
C	RWF50/55	Standard Component		AA	24 VAC SKB/C or D Transformer Terminals	(2) SKB/C or D Transformers
D	RWF50/55 Cover	NEMA 4/NEMA 12		AB	120VAC DPDT Relays	Operation and Alarm Indicator Lights
E	Low Water Manual Reset Illuminated Push Button	Manual Reset Warrick Relay		AC	3 Amp Water Level Control Breaker	Water Level Control
F	Run Indicator Light	Operation and Alarm Indicator Lights		AD	Water Level Control Terminals	Water Level Control
G	Alarm Indicator Light	Operation and Alarm Indicator Lights		AE	3 Amp Backup Water Level Control Breaker	Backup Water Level Control
H	Makeup Air Unit Control Selector Switch	Makeup Air Control – 2 Units with Selector Switch		AF	Backup Water Level Control Terminals	Backup Water Level Control
J	Modbus RS232 and RS485 Terminals	Standard Component		AG	3 Amp Load Control Breaker	Load Control
K	Neutral and Ground Terminals	Standard Component		AH	Load Control Terminals	Load Control
L	16 Amp Non-Fused Disconnect	Standard Component		AJ	3 Amp Load Control Unit 2 Breaker	Load Control – 2 Units
M	Protocol Converter	BMS Communication Other than Modbus TCP/IP		AK	Load Control Unit 2 Terminals	Load Control – 2 Units
N	24 VDC Terminals	BMS Communication Other than Modbus TCP/IP		AL	3 Amp Load Control Unit 3 Breaker	Load Control – 3 Units
P	24 VDC Power Supply	BMS Communication Other than Modbus TCP/IP		AM	Load Control Unit 3 Terminals	Load Control – 3 Units
Q	3 Amp Power Supply Breaker	BMS Communication Other than Modbus TCP/IP		AN	2 Amp Makeup Air Control Breaker	Makeup Air Control
R	Manual Reset Warrick Relay	Manual Reset Warrick Relay		AP	Makeup Air Control Terminals	Makeup Air Control
S	120VAC DPDT Relay	Manual Reset Warrick Relay		AQ	2 Amp Makeup Air Control Unit 2 Breaker	Makeup Air Control – 2 Units
T	Manual Reset Warrick Relay Terminals	Manual Reset Warrick Relay		AR	Makeup Air Control Unit 2 Terminals	Makeup Air Control – 2 Units
U	Automatic Reset Warrick Relay	Automatic Reset Warrick Relay		AS	Cooling Fan	Cooling Fan
V	120VAC DPDT Relay	Automatic Reset Warrick Relay		AT	2A Cooling Fan Breaker	Cooling Fan
W	Automatic Reset Warrick Relay Terminals	Automatic Reset Warrick Relay		AU	Air Intake Filter	Cooling Fan
X	24 VAC SKB/C or D Transformer	SKB/C or D Transformer		AV	Hose-Proof Hood	Cooling Fan/NEMA 12

Dimensions and Layout

Dimensions in inches; millimeters in brackets

One load controller
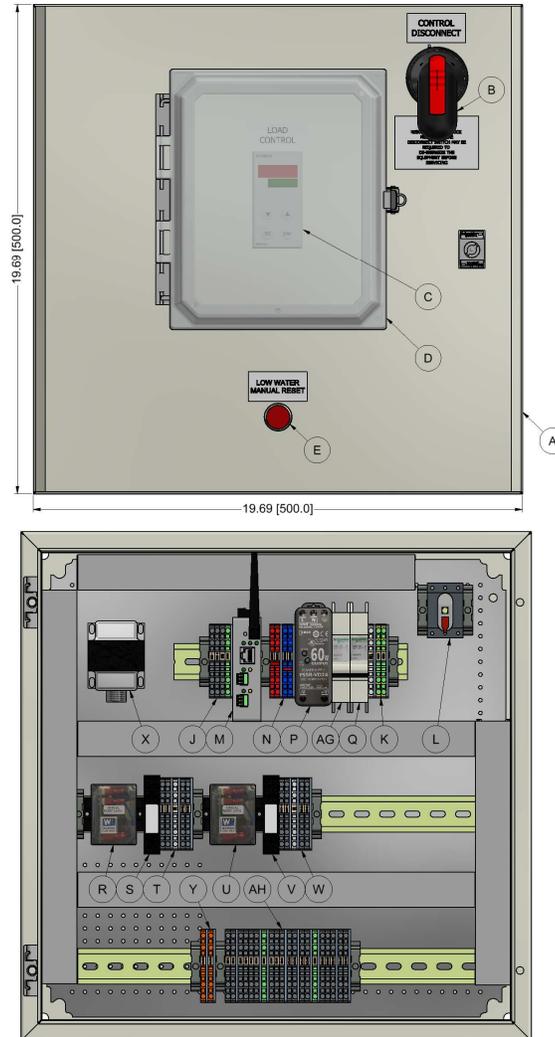
TS-R5LXX-1XB-4YX3

Options for Kit in Enclosure	*BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5LXX-xXB-xYXx	X			
TS-R5LXX-xXx-xYX1		X		
TS-R5LXX-xXx-xYX2			X	
TS-R5LXX-1Xx-xYXx				X

Notes:

12"x12" Enclosure used with NEMA1 and (0-1) options

16"x16" Enclosure used with NEMA1 and (2-3) options or NEMA4/12 and (0-3) options

20"x20" Enclosure with (4) options

* Option not available in 12"x12" enclosure

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

One load controller with a cooling fan
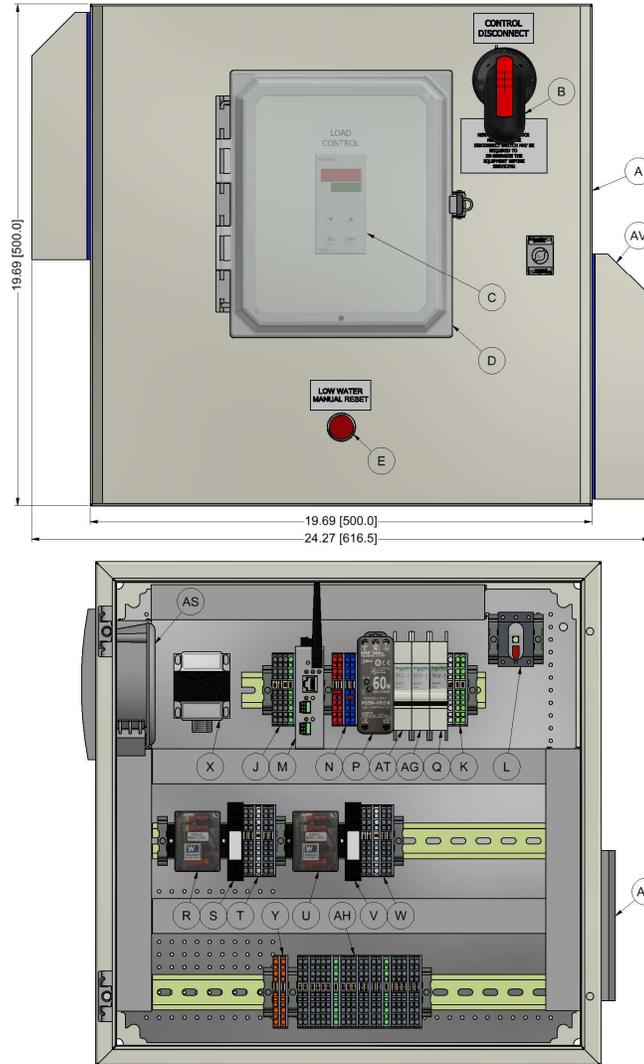
TS-R5LXX-1XB-2YY3

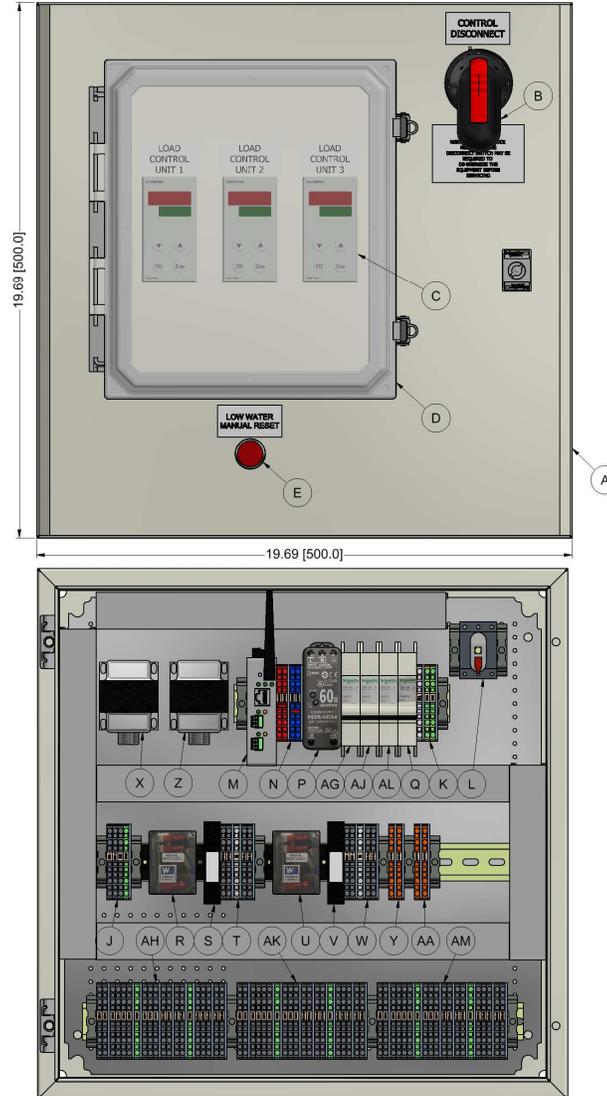| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5LXX-xXB-xYYx	X			
TS-R5LXX-xXx-xYY1		X		
TS-R5LXX-xXx-xYY2			X	
TS-R5LXX-1Xx-xYYx				X

Notes:

16"x16" Enclosure used with (0-2) options

20"x20" Enclosure used with (3-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Two load controllers
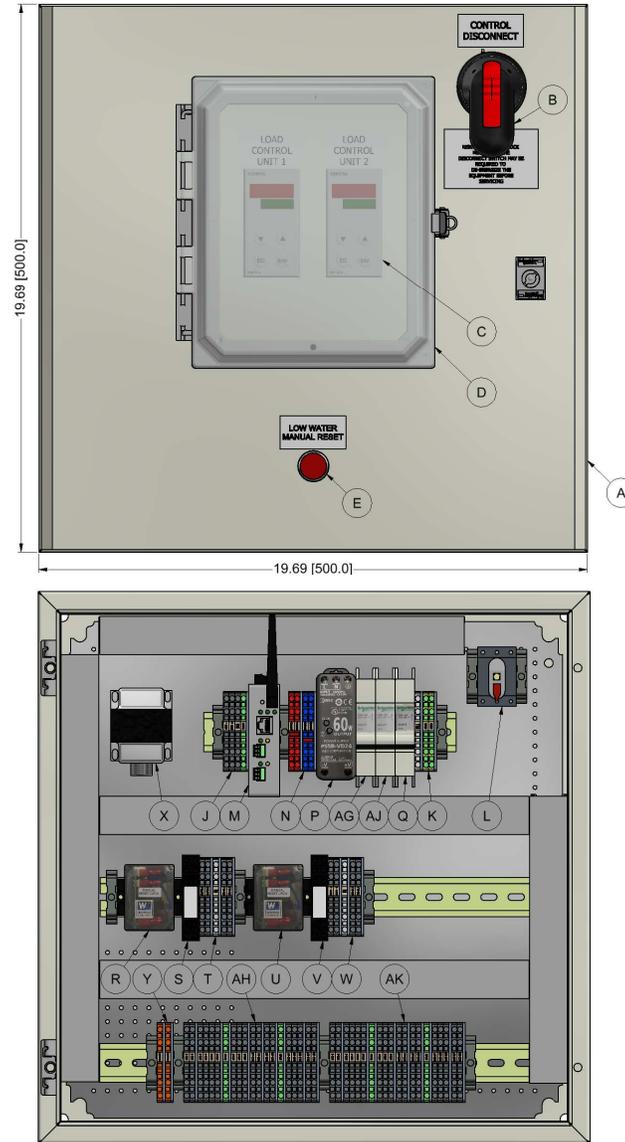
TS-R52XX-1XB-4YX3

Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R52XX-xXB-xYXx	X			
TS-R52XX-xXx-xYX1		X		
TS-R52XX-xXx-xYX2			X	
TS-R52XX-1Xx-xYXx				X

Notes:

16"x16" Enclosure used with (0-1) options

20"x20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Two load controllers with a cooling fan
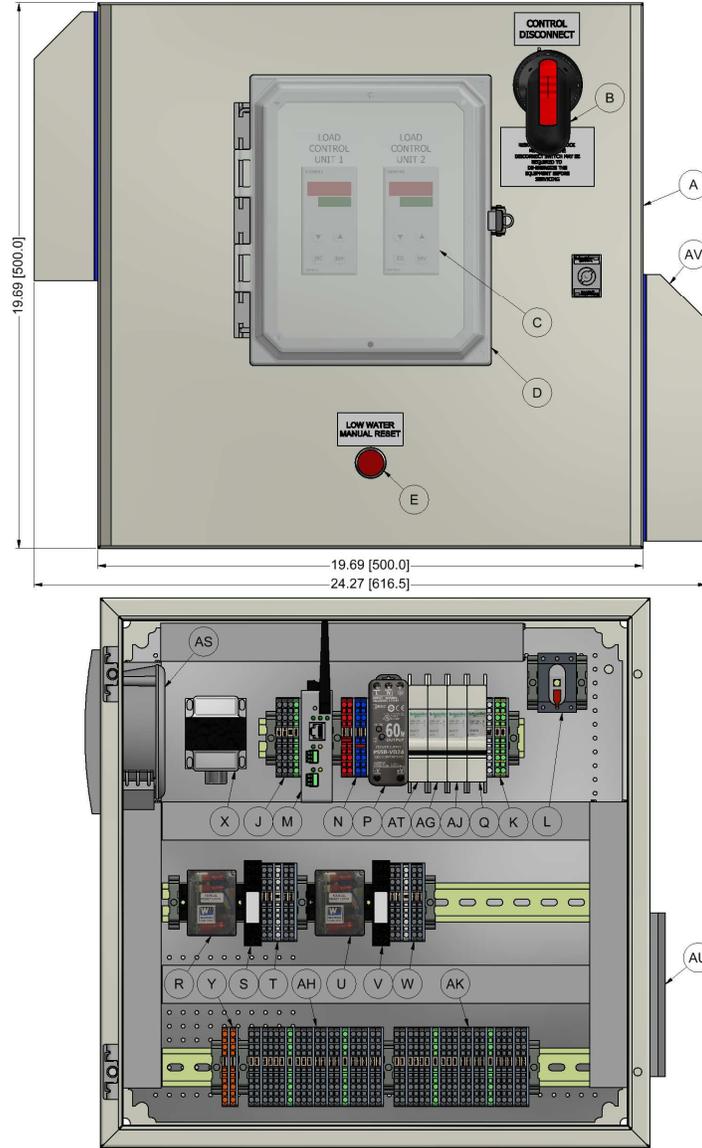
TS-R52XX-1XB-2YY3

Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R52XX-xXB-xYYx	X			
TS-R52XX-xXx-xYY1		X		
TS-R52XX-xXx-xYY2			X	
TS-R52XX-1Xx-xYYx				X

Notes:
16"x16" Enclosure used with (0-1) options
20"x20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Three load controllers

TS-R53XX-2XB-4YX3

Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)	(2) SKB/C/D Power Transformers (Z, AA)
TS-R53XX-xXB-xYXx	X				
TS-R53XX-xXx-xYX1		X			
TS-R53XX-xXx-xYX2			X		
TS-R53XX-1Xx-xYXx				X	
TS-R53XX-2Xx-xYXx					X

Notes:

16"x16" Enclosure used with NEMA1 and (0) options

20"x20" Enclosure used with NEMA1 and (1-5) options or NEMA4/12 and (0-5) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Three load controllers with a cooling fan
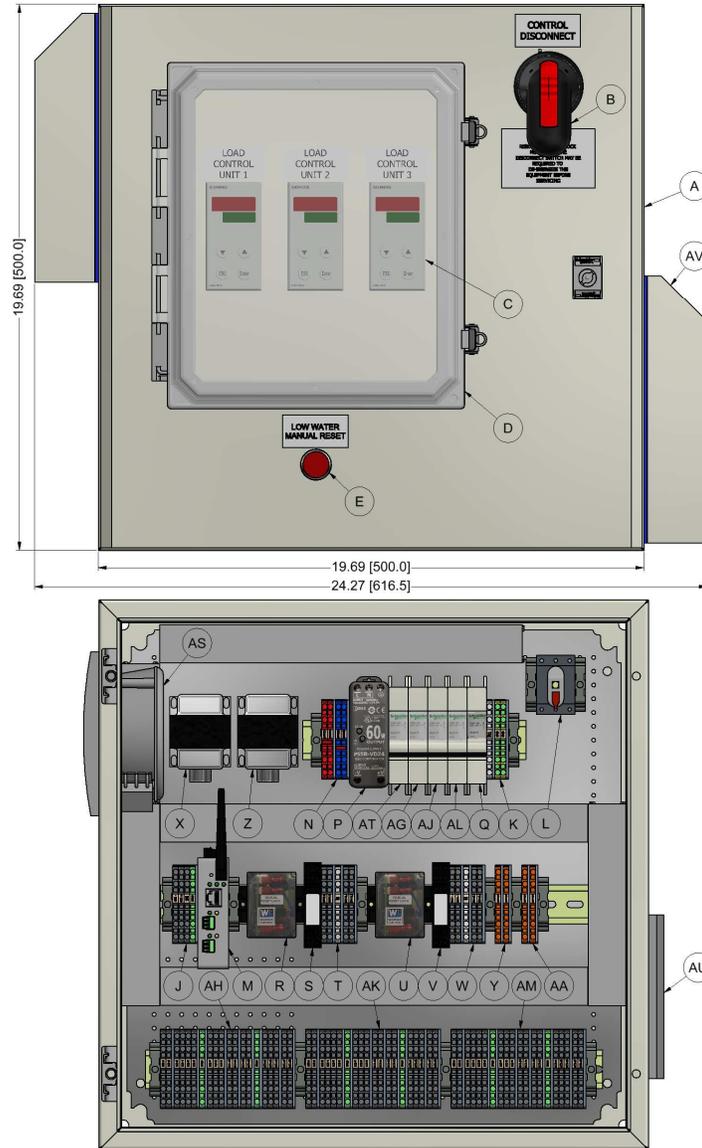
TS-R53XX-2XB-2YY3

Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)	(2) SKB/C/D Power Transformers (Z, AA)
TS-R53XX-xXB-xYYx	X				
TS-R53XX-xXx-xYY1		X			
TS-R53XX-xXx-xYY2			X		
TS-R53XX-1Xx-xYYx				X	
TS-R53XX-2Xx-xYYx					X

Notes:

20"x20" Enclosure used with (0-5) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Water Level Control
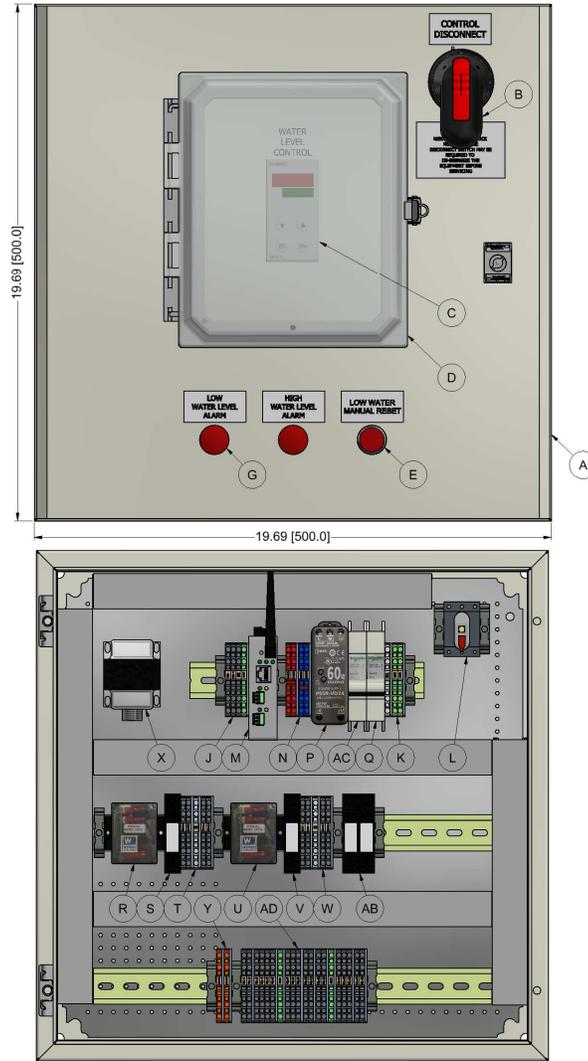
TS-R5XWX-1YB-4YX3

Options for Kit in Enclosure	*BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XWX-xYB-xYXx	X			
TS-R5XWX-xYx-xYX1		X		
TS-R5XWX-xYx-xYX2			X	
TS-R5XWX-1Yx-xYXx				X

Notes:

12"x12" Enclosure used with NEMA1 and (0-1) options

16"x16" Enclosure used with NEMA1 and (2-3) options or NEMA4/12 and (0-3) options

20"x20" Enclosure with (4) options

* Option not available in 12"x12" enclosure

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Water Level Control with Cooling Fan
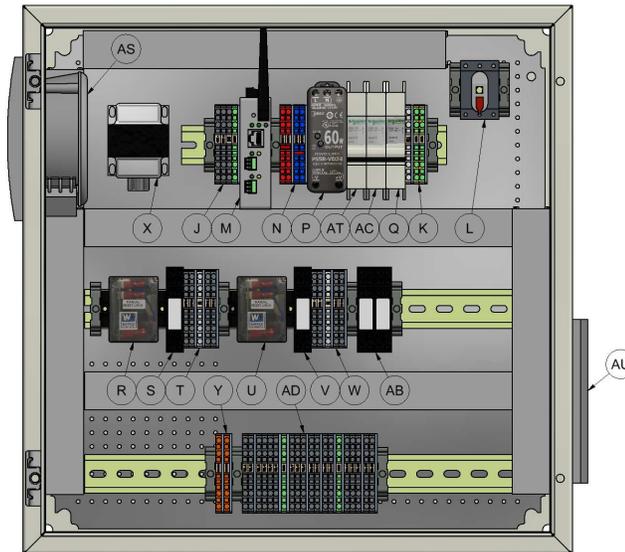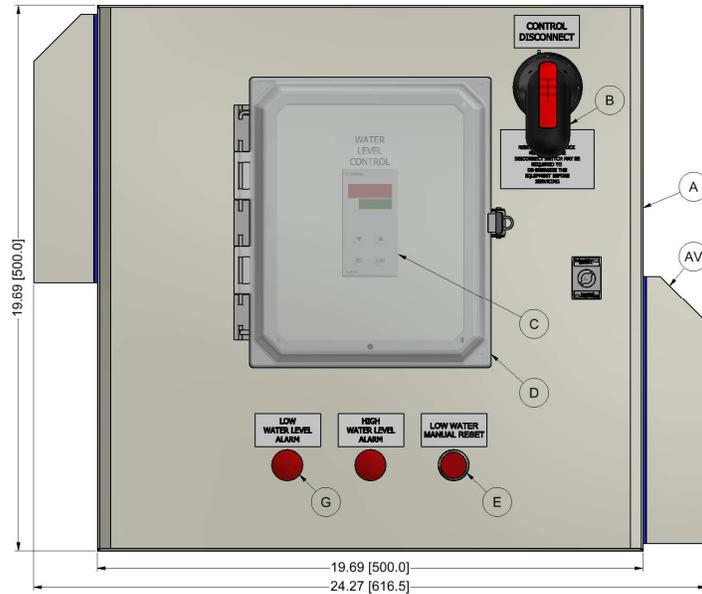
TS-R5XWX-1YB-2YY3

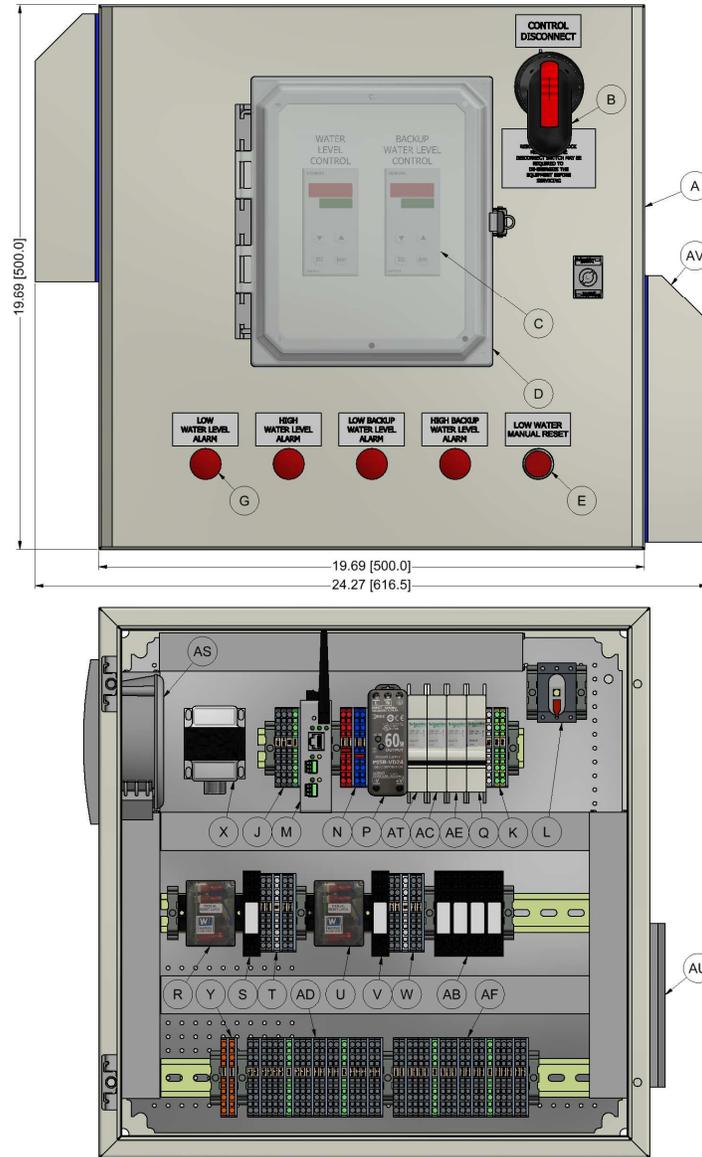| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XWX-xYB-xYYx	X			
TS-R5XWX-xYx-xYY1		X		
TS-R5XWX-xYx-xYY2			X	
TS-R5XWX-1Yx-xYYx				X

Notes:

16"x16" Enclosure used with (0-2) options

20"x20" Enclosure used with (3-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Water Level Control and Backup
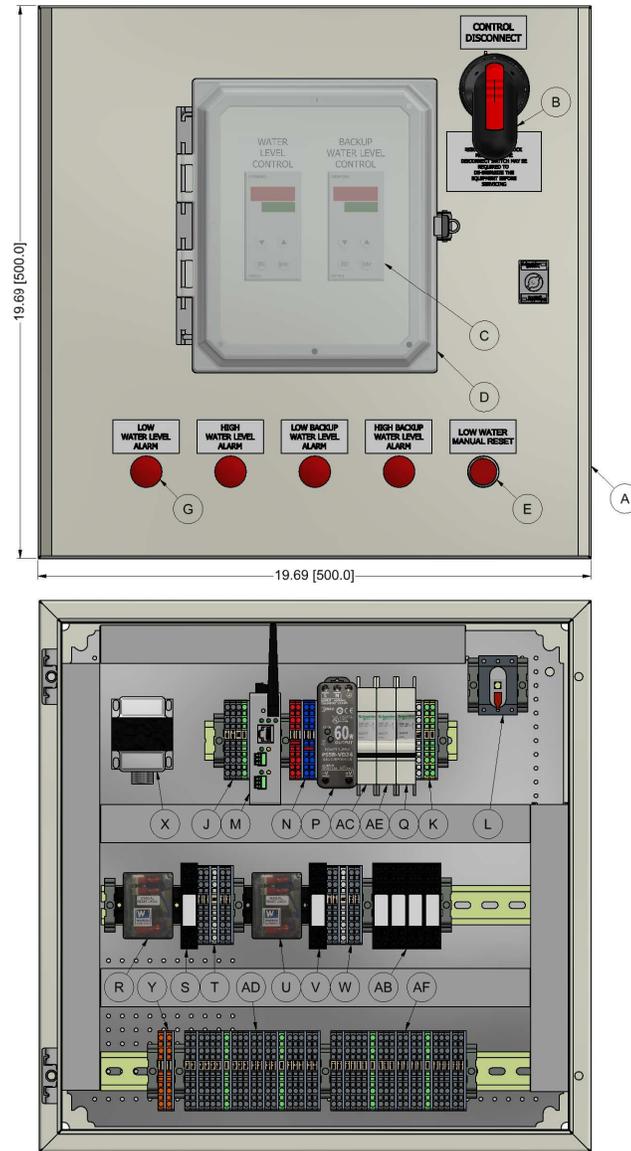
TS-R5XBX-1YB-4YX3

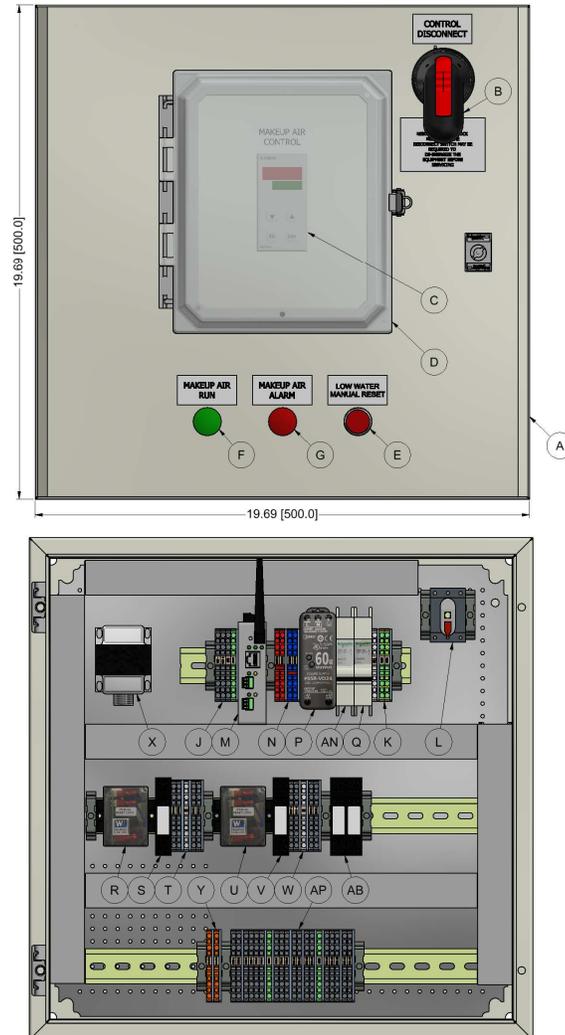| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XBX-xYB-xYXx	X			
TS-R5XBX-xYx-xYX1		X		
TS-R5XBX-xYx-xYX2			X	
TS-R5XBX-1Yx-xYXx				X

Notes:

16"x16" Enclosure used with (0-1) options

20"x20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Water Level Control and Backup with Cooling Fan

TS-R5XBX-1YB-2YY3

Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XBX-xYB-xYYx	X			
TS-R5XBX-xYx-xYY1		X		
TS-R5XBX-xYx-xYY2			X	
TS-R5XBX-1Yx-xYYx				X

Notes:

16" x 16" Enclosure used with (0-1) options

20" x 20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Makeup Air Control

TS-R5XXM-1YB-4YX3

Options for Kit in Enclosure	*BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XXM-xYB-xYXx	X			
TS-R5XXM-xYx-xYX1		X		
TS-R5XXM-xYx-xYX2			X	
TS-R5XXM-1Yx-xYXx				X

Notes:

12"x12" Enclosure used with NEMA1 and (0-1) options

16"x16" Enclosure used with NEMA1 and (2-3) options or NEMA4/12 and (0-3) options

20"x20" Enclosure with (4) options

* Option not available in 12"x12" enclosure

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Makeup Air Control with Cooling Fan

TS-R5XXM-1YB-2YY3

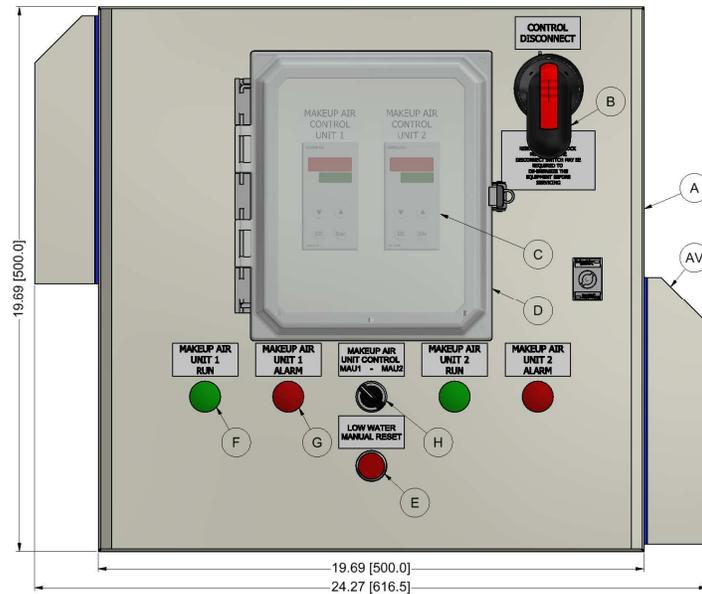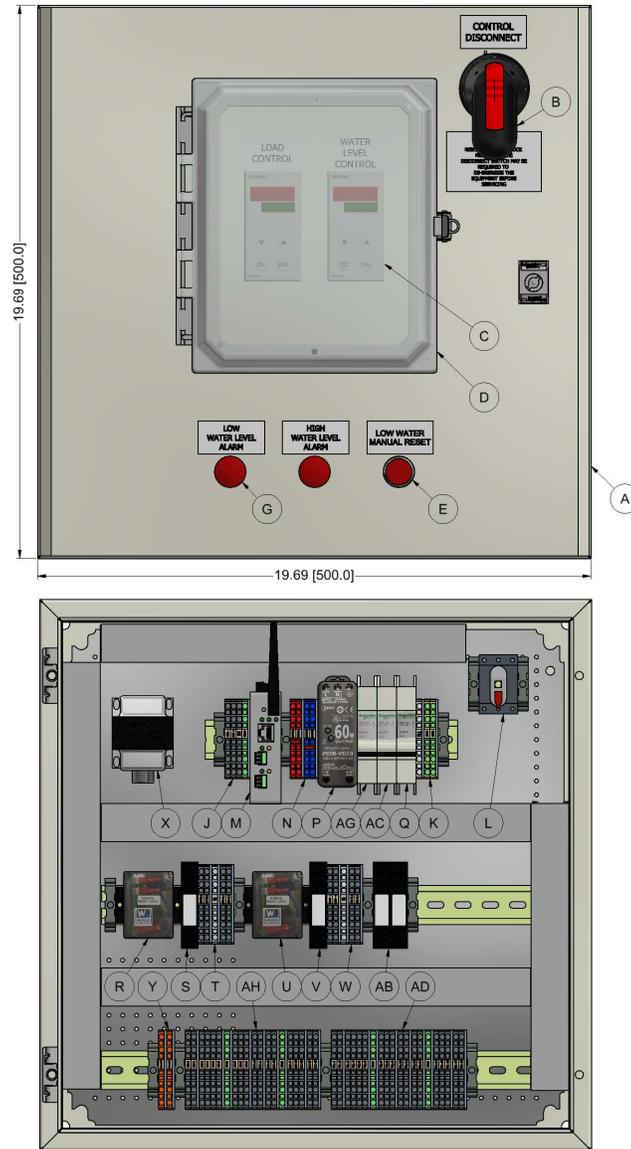| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XXM-xYB-xYYx	X			
TS-R5XXM-xYx-xYY1		X		
TS-R5XXM-xYx-xYY2			X	
TS-R5XXM-1Yx-xYYx				X

Notes

16" x16" Enclosure used with (0-2) options

20" x20" Enclosure used with (3-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Makeup Air Control – Two Units
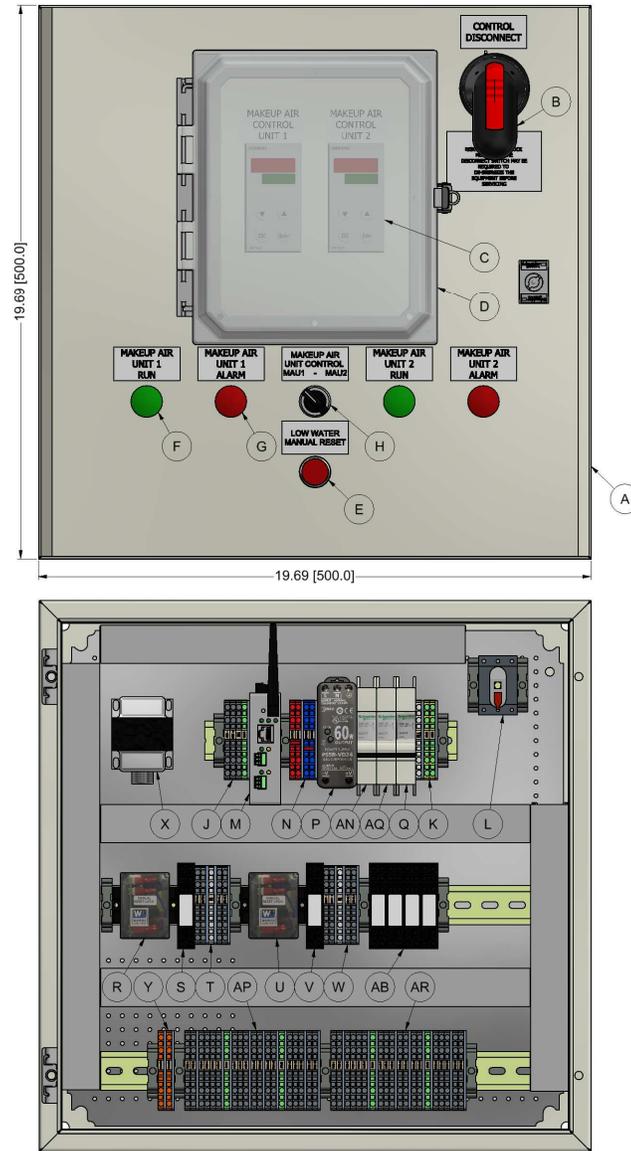
TS-R5XXS-1YB-4YX3

Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XXS-xYB-xYXx	X			
TS-R5XXS-xYx-xYX1		X		
TS-R5XXS-xYx-xYX2			X	
TS-R5XXS-1Yx-xYXx				X

Notes:

16"x16" Enclosure used with (0-1) options

20"x20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Makeup Air Control – Two Units with Cooling Fan
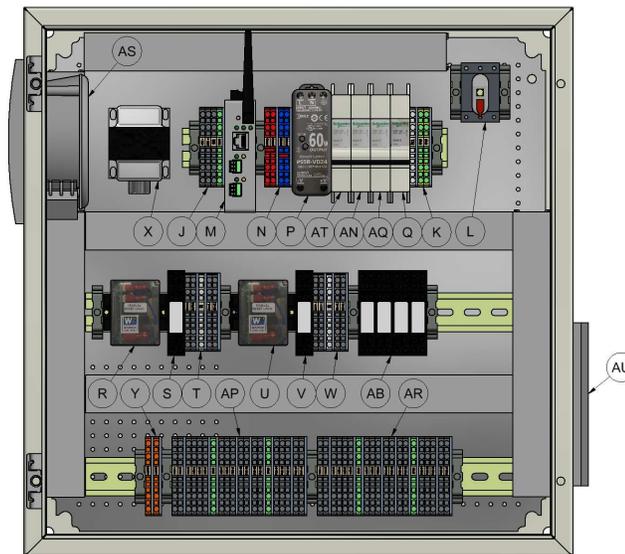
TS-R5XXS-1YB-2YY3

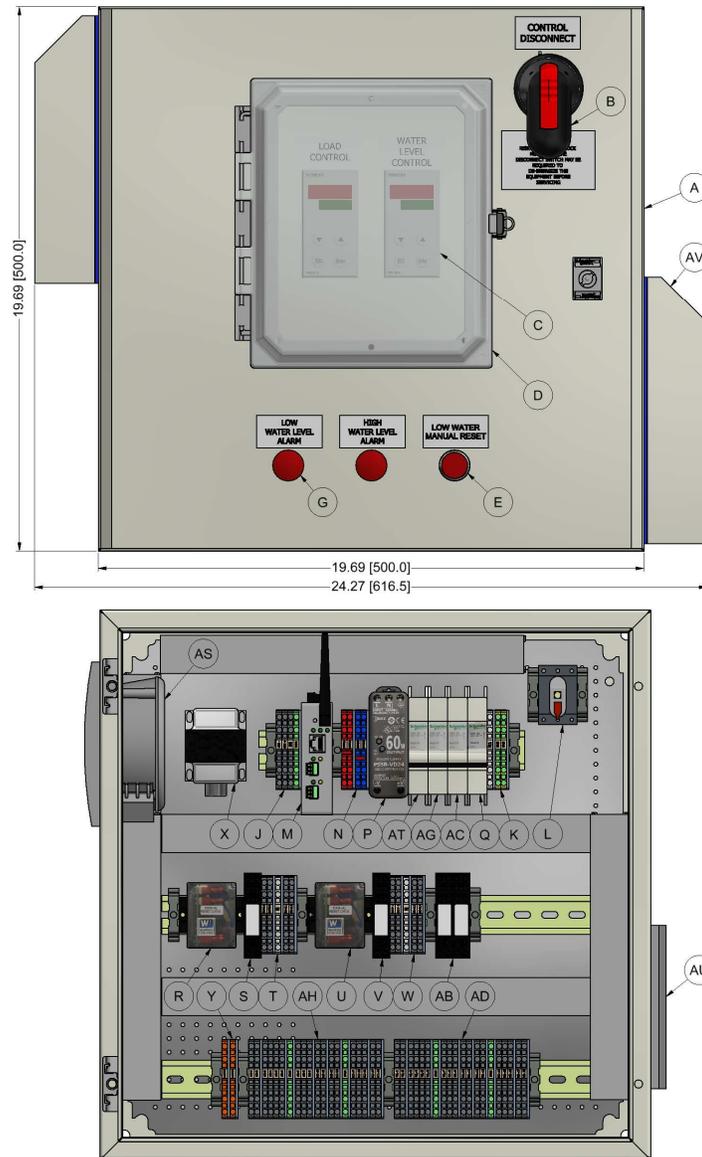| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5XXS-xYB-xYYx	X			
TS-R5XXS-xYx-xYY1		X		
TS-R5XXS-xYx-xYY2			X	
TS-R5XXS-1Yx-xYYx				X

Notes:
16"x16" Enclosure used with (0-1) options
20"x20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Combination, Two Processes

TS-R5LWX-1YB-4YX3

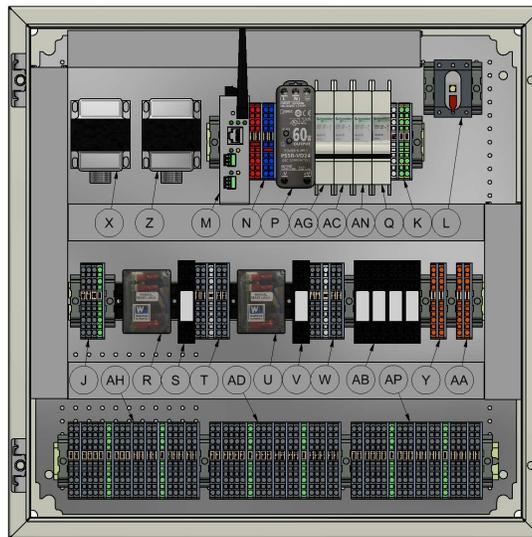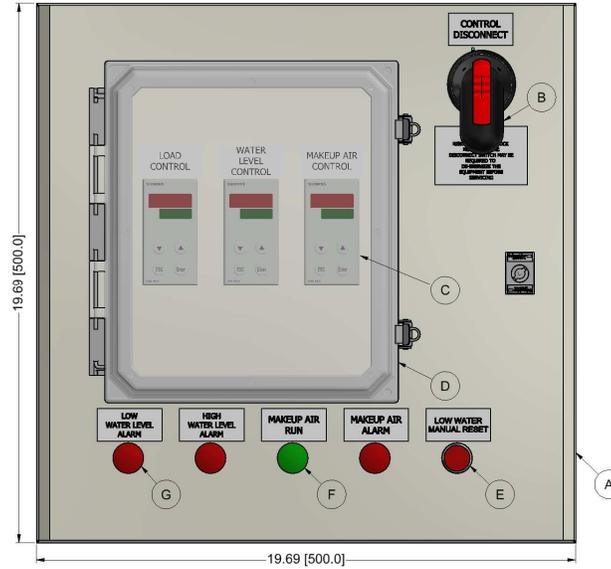| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5LWX-xYB-xYXx	X			
TS-R5LWX-xYx-xYX1		X		
TS-R5LWX-xYx-xYX2			X	
TS-R5LWX-1Yx-xYXx				X

Notes:

16"x16" Enclosure used with (0-1) options

20"x20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Combination, Two Processes with Cooling Fan

TS-R5LWX-1YB-2YY3

| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)
TS-R5LWX-xYB-xYYx	X			
TS-R5LWX-xYx-xYY1		X		
TS-R5LWX-xYx-xYY2			X	
TS-R5LWX-1Yx-xYYx				X

Notes:

16" x 16" Enclosure used with (0-1) options

20" x 20" Enclosure used with (2-4) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Combination, Three Processes

TS-R5LWM-2YB-4YX3

Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)	(2) SKB/C/D Power Transformers (Z, AA)
TS-R5LWM-xXB-xYXx	X				
TS-R5LWM-xXx-xYX1		X			
TS-R5LWM-xXx-xYX2			X		
TS-R5LWM-1Xx-xYXx				X	
TS-R5LWM-2Xx-xYXx					X

Notes:

16"x16" Enclosure used with NEMA1 and (0) options

20"x20" Enclosure used with NEMA1 and (1-5) options or NEMA4/12 and (0-5) options

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

Combination, Three Processes with Cooling Fan
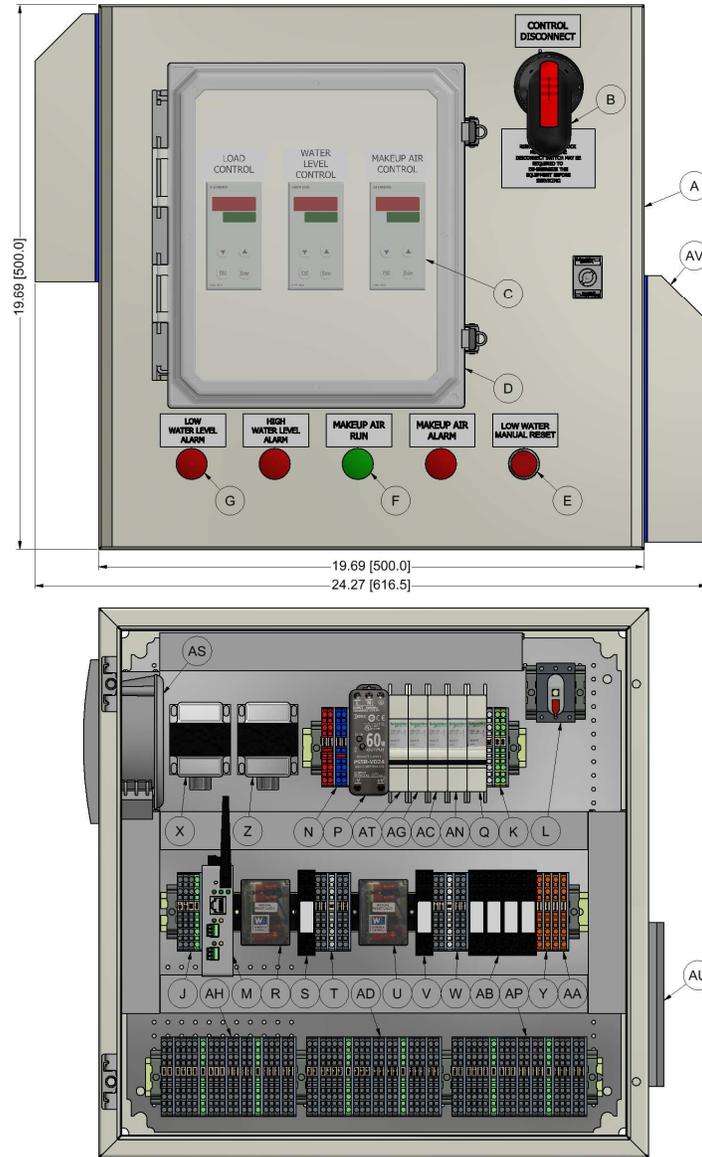
TS-R5LWM-2YB-2YY3

| Options for Kit in Enclosure	BMS Comm Other than Modbus RS485 (M, N, P, Q)	Manual Reset Warrick Relay (E, R, S, T)	Automatic Reset Warrick Relay (U, V, W)	SKB/C/D Power Transformer (X, Y)	(2) SKB/C/D Power Transformers (Z, AA)
TS-R5LWM-xYB-xYYx	X				
TS-R5LWM-xYx-xYY1		X			
TS-R5LWM-xYx-xYY2			X		
TS-R5LWM-1Yx-xYYx				X	
TS-R5LWM-2Yx-xYYx					X

Notes:
20"x20" Enclosure used with (0-5) options

Dimensions and Layout (continued)
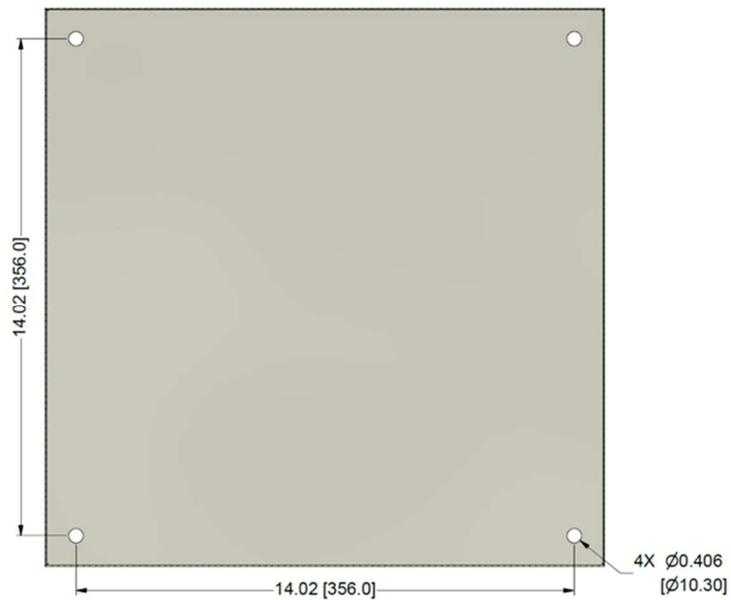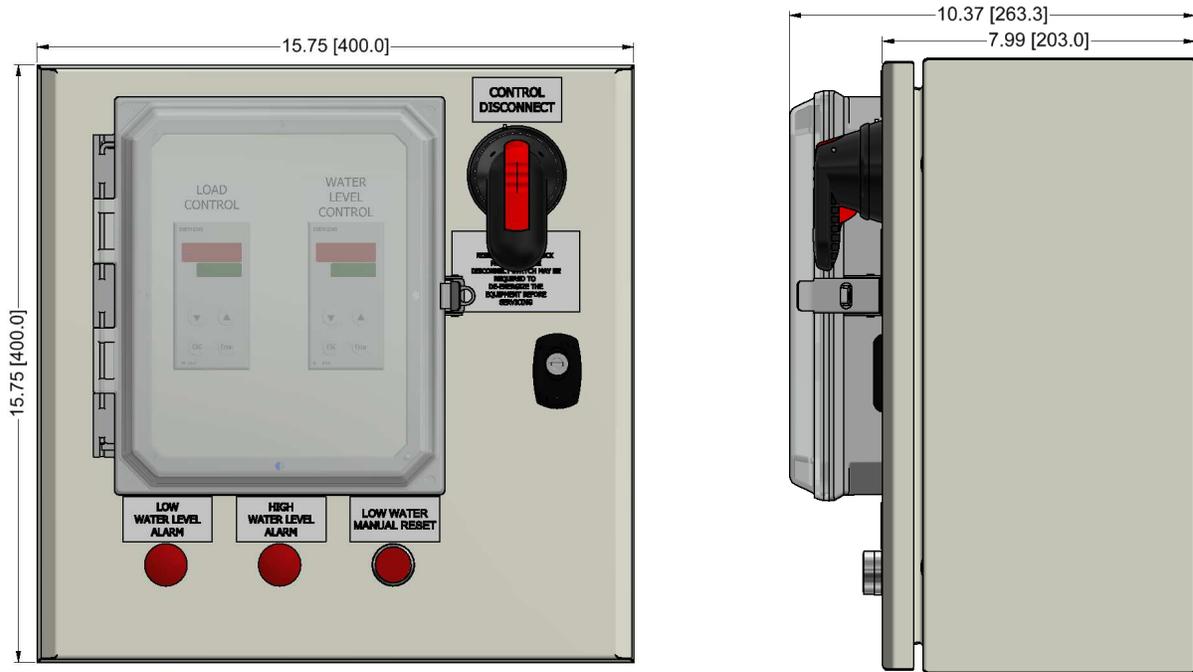
Dimensions in inches; millimeters in brackets

12" X 12" X 8" Enclosure Dimensions
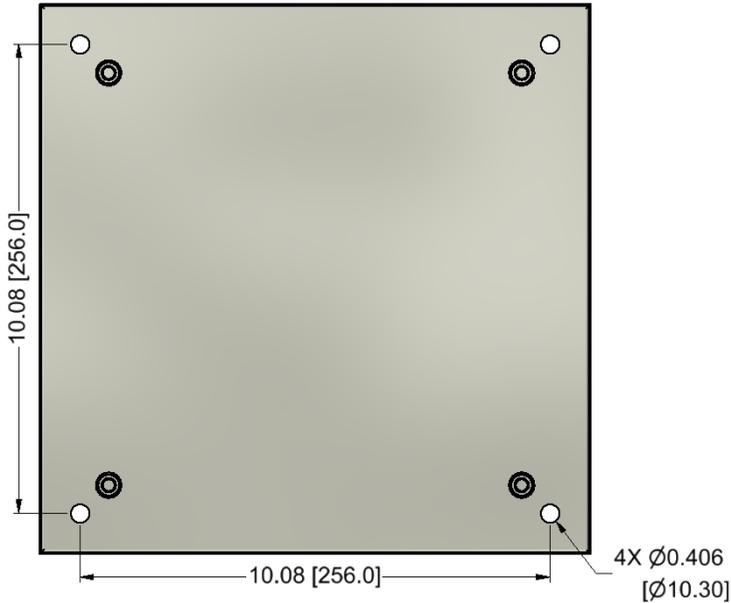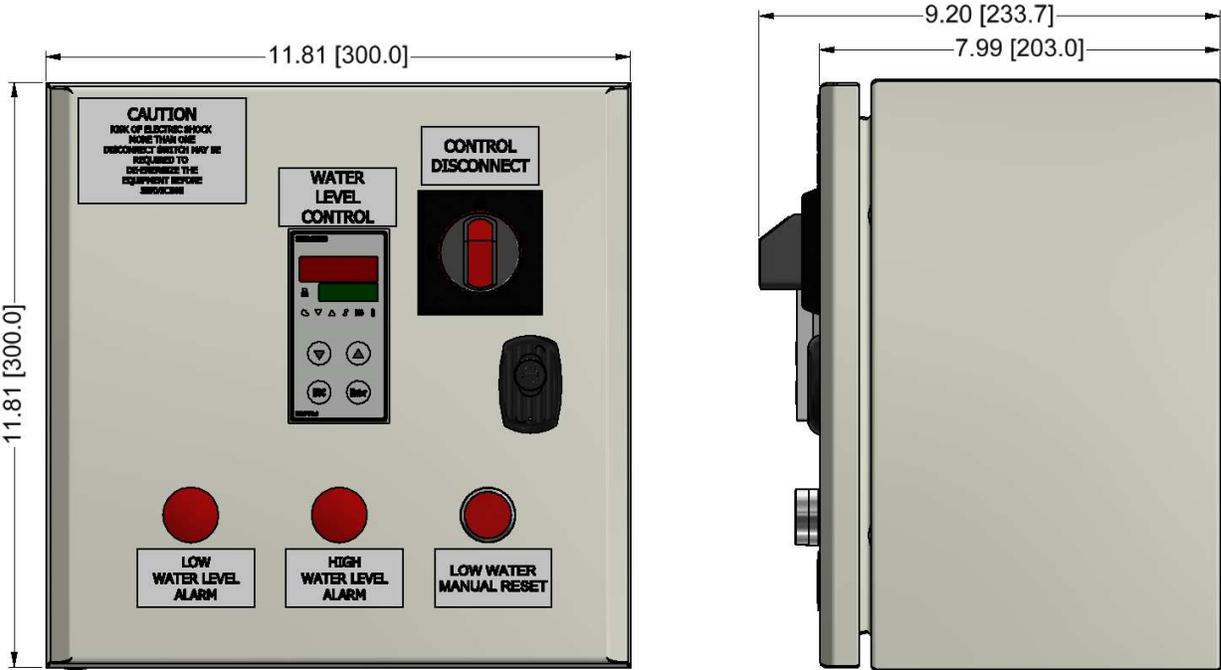
Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets
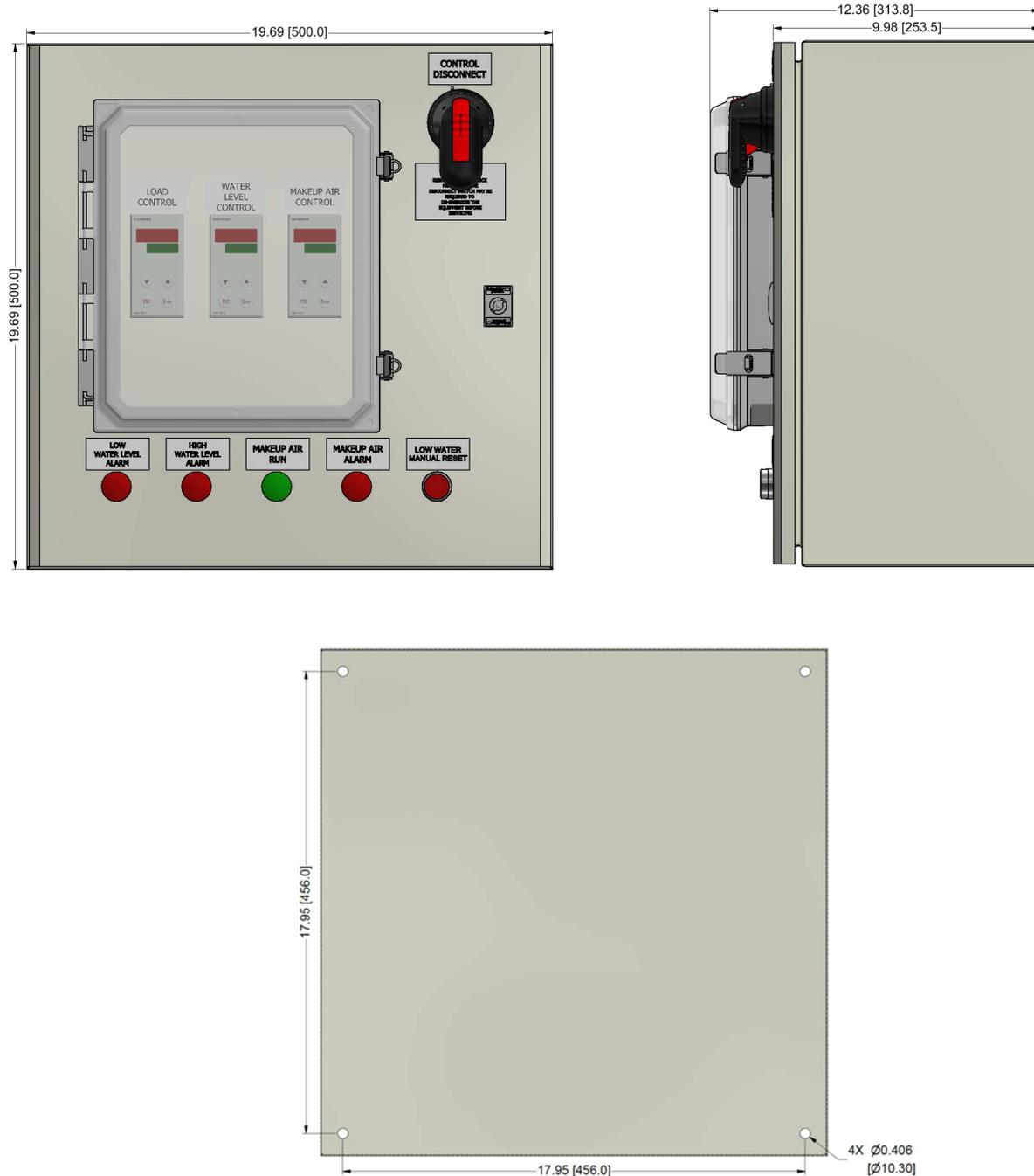
16" X 16" X 8" Enclosure Dimensions

Dimensions and Layout (continued)

Dimensions in inches; millimeters in brackets

20" X 20" X 10" Enclosure Dimensions

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