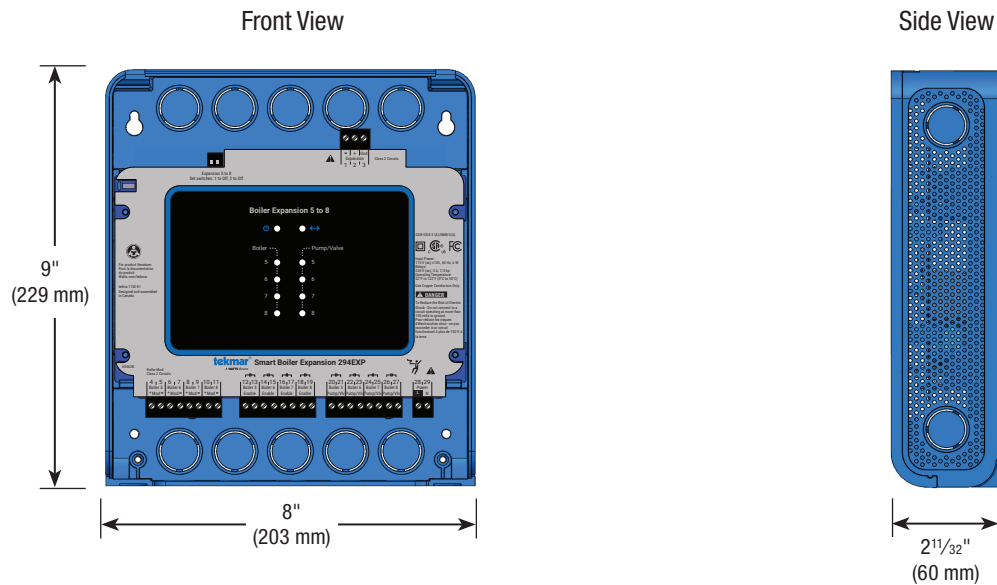## *Submittal*

Job _____   Designer _____   Contact _____

Smart Boiler Expansion 294EXP

The Smart Boiler Expansion 294EXP expands the Smart Boiler Control 294 in groups of four boilers up to a maximum of sixteen boilers. The 294EXP connects to the Smart Boiler Control 294 through a three-wire communication cable.

Front View

9"
(229 mm)

8"
(203 mm)

Side View

$2^{11}/_{32}$"
(60 mm)

Features

- Expansion for 4 boilers
- LED status indicators
- 3-wire communication

Specifications

Smart Boiler Expansion 294EXP	
Literature	Submittal, Installation and Operating Manual
Packaged weight	2.4 lb. (1100 g)
Dimensions	9" H x 8" W x $2^{11}/_{32}$" D (229 x 203 x 60 mm)
Enclosure	Blue ABS plastic, NEMA type 1
Approvals	CSA C US, RoHS, Meets Class B: ICES & FCC Part 15
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), RH ≤90% non-condensing, Altitude < 6560 feet (2000 m), Installation Category II, Pollution Degree 2
Power supply	115 V (ac) ±10%, 60 Hz, 6 W
Relays	230 V (ac), 5A, 1/3 hp
Modulating outputs	0-10 V (dc) 500 Ω minimum load impedance or 4-20 mA 1 kΩ max load impedance
Warranty	Limited 3 Year (See IOM for full warranty)

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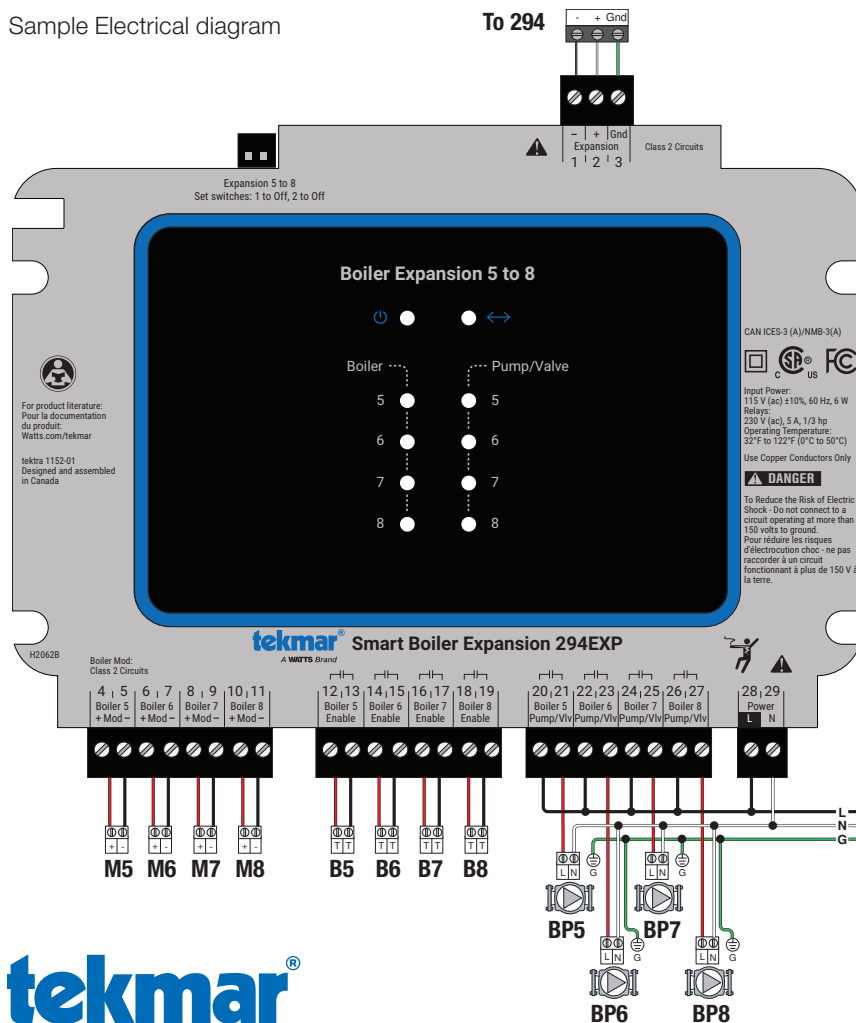*A* **WATTS** *Brand*

Sample Application Drawing

Sample Mechanical diagram
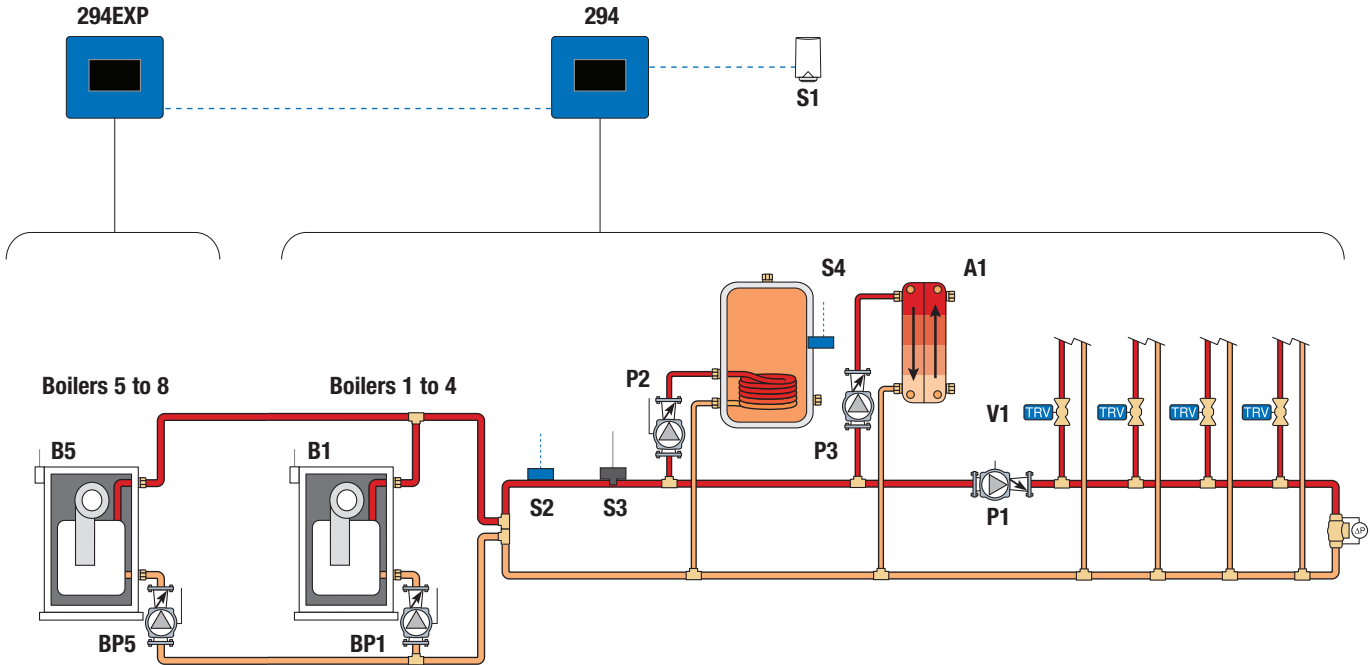
Sample Electrical diagram

Legend

A1 = Setpoint Load Call
B1...B4 = Boiler On-Off Enable 1 to 4 (294)
BP1...BP4 = Boiler Pumps 1 to 4 (294)
M1...M4 = Boiler Modulation Signal 1 to 4 (294)
B5...B8 = Boiler On-Off Enable 5 to 8 (294EXP)
BP5...BP8 = Boiler Pumps 5 to 8 (294EXP)
M5...M8 = Boiler Modulation Signal 5 to 8 (294EXP)
S1 = Outdoor Sensor 070
S2 = Boiler Supply Sensor 082
S3 = Pressure Sensor 088 (Optional)
S4 = DHW Sensor 078
P1 = System Pump
P2 = DHW Pump
P3 = Setpoint Load Pump
V1 = Zone Valves

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