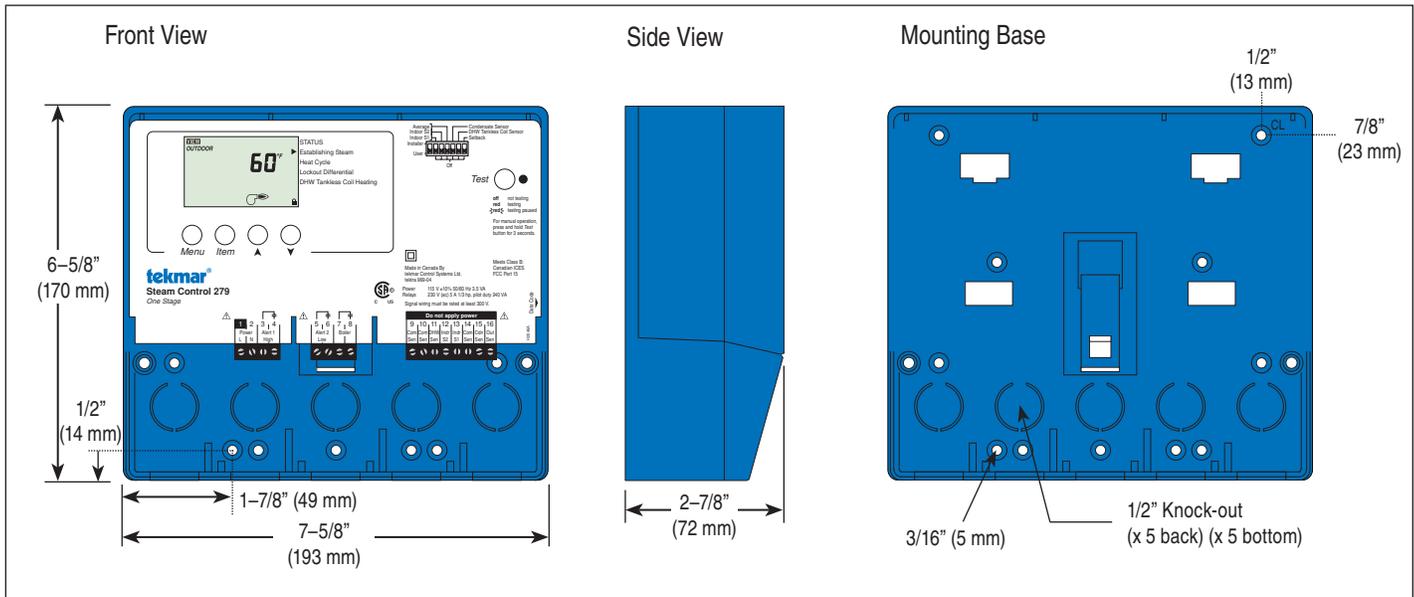Job _____   Designer _____   Contact _____

The Steam Control 279 is designed to operate a single steam boiler using outdoor reset. It can be used in single pipe steam applications as well as applications using a tankless DHW coil. This control regulates the on time of a steam boiler through outdoor reset control. It is capable of controlling a single on/off steam boiler.

Front View   Side View   Mounting Base

Specifications

Steam Control 279 *One Stage*	
Literature	D279, A279, D001, D070
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	3.3 lb. (1500 g)
Dimensions	6-5/8" H x 7-9/16" W x 2-13/16" D (170 x 193 x 72 mm)
Enclosure	Blue PVC plastic, NEMA type 1
Approvals	CSA C US, 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 ft. (2000 m), Installation Category II, Pollution Degree 2
Power supply	115 V (ac) ± 10%, 50/60 Hz, 3.5 VA
Relays	230 V (ac) 5 A, 1/3 hp, pilot duty 240 VA
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) ß=3892
–Included	Outdoor Sensor 070 and Universal Sensor 071
–Optional	tekmar type #: 071, 076, 077, 078, 082, 084
Warranty	Limited 3 Year (See D279 for full warranty)

Energy Saving Features
- Outdoor Temperature Reset
- Warm Weather Shut Down
- Built-in programmable timer
- Indoor Temperature Feedback (with optional indoor sensor)

Additional Features
- Manual Override
- Includes outdoor sensor
- Includes condensate sensor
- Large LCD display
- DHW tankless coil operation
- 24 hour, 5-1-1, 7 day schedule
- Two or four schedule events per day
- Two alert level relays
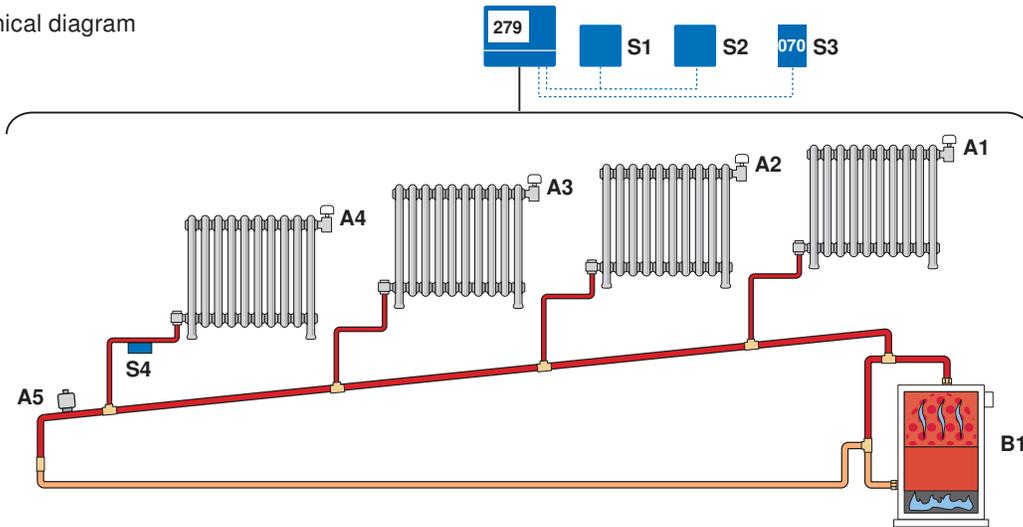- CSA approved for use in USA and Canada

SPECIAL REQUIREMENTS
N / A

Sample Application Drawing

Below is a sample application drawing for this product. This application may include other tekmar products that are required for installation. More sample applications can be found at www.tekmarcontrols.com.

Sample Mechanical diagram

279   S1   S2   070 S3

A1
A2
A3
A4
A5
S4
B1

Sample Electrical diagram

Legend:

B1 = Boiler 1
S1 = Indoor Sensor
S2 = Indoor Sensor
S3 = Outdoor Sensor
S4 = Condensate Return Sensor
A1 = Air Vent 1
A2 = Air Vent 2
A3 = Air Vent 3
A4 = Air Vent 4
A5 = Main Air Vent

VIEW
OUTDOOR

60 °F

STATUS
Establishing Steam
Heat Cycle
Lockout Differential
DHW Tankless Coil Heating

Average
Indoor S2   Condensate Sensor
Indoor S1   DHW Tankless Coil Sensor
Installer   Setback
User
                   Off

Test

off   not testing
red   testing
red   testing paused

For manual operation, press and hold *Test* button for 3 seconds.

Menu   *Item*   ▲   ▼

tekmar®

Steam Control 279
One Stage

Made in Canada By
tekmar Control Systems Ltd.
tektra 969-04

Meets Class B:
Canadian ICES
FCC Part 15

Power   115 V ±10% 50/60 Hz 3.5 VA
Relays   230 V (ac) 5 A 1/3 hp, pilot duty 240 VA

Signal wiring must be rated at least 300 V.

Do not apply power

1	2	3	4		5	6	7	8		9	10	11	12	13	14	15	16
Power		Alert 1			Alert 2		Boiler			Com	Com	DHW	Indr	Indr	Com	Cdn	Out
L	N	High			Low					Sen	Sen	Sen	S2	S1	Sen	Sen	Sen

S4   S3
S2
S1

B1

120 V (ac)   L
              N

tekmar®
Control Systems

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