



# Sapien™ 2Wire Controller

## Electric / Mechanical Specifications

### Dimensions / Weights

#### Sapien Indoor Plastic Cabinet

6.3" H x 7.33" W x 1.78" D (16 cm x 18,6 cm x 4,5 cm)

#### External Transformer

3.6" H x 2.2" W x 2.75" D (9 cm x 5,5 cm x 4,5 cm)

#### Weight

Sapien (w/ transformer and packaging) 3.8 lbs. (1.72Kg)

115V/60Hz External transformer only 2.8 lbs. (1.27 Kg)

#### Optional Outdoor Enclosures

The Sapien is available in any one of the following optional outdoor enclosures

No.	Description	Part Number	Weight	Dimensions
1	High-impact plastic wall-mount enclosure	TW-3-PLC	5.0 lbs (2.27 Kg)	11.5" H x 9.25" W x 5.5" D 29,3cm H x 23,5cm W x 14cm D
2	Stainless- steel wall-mount enclosure	TW-3C-SS-WM	23.0 lbs (10.42 Kg)	15.25" H x 15.25" W x 4.75" D 38,7cm H x 32,4cm W x 12,1cm D
3	Stainless-steel, sloped top-entry pedestal	TW-3C-SS-PED	90 lbs. (40.82 Kg)	39" H x 16.5" W x 17.5" D 99,06cm H x 32,4cm W x 44,45cm D

### Electrical Requirements

#### Sapien Controller

The Sapien shall provide "Pure AC" power all the way from the controller, down the 2Wire com path through the decoder to the valve solenoid. This method of power distribution allows the Sapien to utilize existing remote control wire field wires if available for street or parking lot crossings to avoid trenching and pavement repair costs.

The Sapien shall meet the following electrical requirements:

Transformer Input: 120 VAC, 60Hz (230 VAC 50.60 Hz International applications)

Transformer Output: 26 VAC, 1.3 amps

Station Output: 25 VAC, 0.60 amps (600 mA) per station

Maximum Output: 25 VAC, 1.2 amps (1200 mA) (includes master valve/pump start circuit. (for master valves requiring higher in-rush current, a separate power supply may be necessary)

Battery Back-up: Lithium coin cell battery (typical 5-years)



The transformer is waterproof to IP54/NEMA 4X  
UL, CE recognized transformer.

**Individual Station Decoders**

Minimum operating voltage*	13 VAC
Maximum continuous solenoid current from decoder	0.6A (600mA)
Decoder standby current	2.8mA (typical)
Station (zone) number range	1 - 63 (inclusive)
*Most solenoids require a minimum of 19V ac to operate	