Suggested initial settings for the ESP-SMTe controller

	Grass		Desert Shrubs	Desert Trees	High water shrubs	High water trees
	Summer Bermuda	Winter Rye				
Sprinkler Type	Input value from tuna can test under sprinkler entry	Input value from tuna can test under sprinkler entry	.3 if 1GPH emitters .4 if 2GPH emitters under drip entry	.3 if 1GPH emitters .4 if 2GPH emitters under drip entry	.3 if 1GPH emitters .4 if 2GPH emitters under drip entry	.3 if 1GPH emitters .4 if 2GPH emitters under drip entry
Plant Type	Warm Season Varieties under Grass Lawn Entry	Cool Season Variaties under Grass lawn Entry	Desert Plants	Desert Plants	Shrubs	Trees
Plant Water Needs	N/A	N/A	Low to Average	Low to Average	Average to High	Average to High
Root Depth	6-10 inches	6-10 inches	18-24 inches	24-36 inches	18-24 inches	24-36 inches
Density	N/A	N/a	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Shade	50% shade if in full sun. Adjust lower if needed	50% shade if in full sun. Adjust lower if needed	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Soil Type	Clay Loam for most	Clay Loam for most	Clay Loam for most	Clay Loam for most	Clay Loam for most	Clay Loam for most
Slope	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Cycle and Soak	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Rain Gauge	Yes	Yes	Yes	Yes	Yes	Yes

Please Note: These settings are a suggested starting point only and may need to be modified for your landscape, so you will need to pay attention to how your individual landscape responds

This is for established landscapes

Check watering depth with soil probe and adjust precipitation rate for drip zones accordingly

Setting the Sprinkler precipitation rate:

Place tuna or cat food cans in the lawn. Use 2 cans per sprinkler head that waters the zone

Run the system for 15 minutes *

Get the average depth of all the cans

Multiply by 4.

Input that number for the sprinkler type

* Low precipitation rate sprinklers may need a longer run time with a different multiplier

REDUCE THE USE
QC WATER CONSERVATION

Town of Queen Creek Water Conservation 480-358-3455

	Groundcovers and vines (desert)	groundcovers and vines (high)	Cacti and succulents	Annuals
Sprinkler Type	.3 if 1GPH emitters .4 if 2GPH emitters under drip entry	.3 if 1GPH emitters .4 if 2GPH emitters under drip entry	.3 if 1GPH emitters .4 if 2GPH emitters under drip entry	Varies depending on irrigation used
Plant Type	Desert Plants	Shrubs	Desert Plants	Annuals
Plant Water Needs	Low to Average	Average to High	Low	Adjust as needed
Root Depth	8-12 inches	8-12 inches	8-12 inches	8-12 inches
Density	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Shade	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Soil Type	Clay Loam for most	Clay Loam for most	Clay Loam for most	Loam for amended soils
Slope	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Cycle and Soak	Automatic	Automatic	Automatic	Automatic
Rain Gauge	Yes	Yes	Yes	Yes

What changing these setting do:

Increasing the precipitation rate (sprinkler type) will decrease the amount of time a zone runs on an irrigation day

Decreasing the precipitation rate (sprinkler type) will increase the amount of time a zone runs on an irrigation day

Increasing the root depth will increase the amount of time a zone runs on an irrigation day **AND** lengthen the watering day interval

Decreasing the root depth will decrease the amount of time a zone runs on an irrigation day **AND** shorten the watering day interval

Increasing the density factor will adjust the water needs higher

Decreasing the density factor will adjust the water needs lower

Increasing the shade factor (more sunny) will adjust the water needs higher

Decreasing the shade factor (more shady) will adjust the water needs lower

Setting the soil type towards clay type soils will increase the amount of cycle and soak used **AND** lengthen the watering day interval

Setting the soil type towards sandy type soils will decrease the amount of cycle and soak used **AND** shorten the watering day interval

Increasing the slope will increase the amount of cyce and soak used

Decreasing the slope will decrease the amount of cycle and soak used