Soil Moisture Based Irrigation Technologies—Summary of Product Information and Features

Company Info	Baseline	Calsense (SMS)	Dynamax	Hunter Industries	IRROMETER	MorpH2O	Rain Bird (SMS)	Tucor	UgMO Technologies
Telephone	(208) 323-1634	(951) 352-3891	(800) 896-7108	(760) 591-7344	(951) 689-1701	(801) 317-4239	(800) 724-6247	(800) 272-7472	(484) 690-0570
Contact Person	Bob Beers	Rick Capitanio	Gary Woods	Dave Shoup	Tom Penning	Kevin Wellard	Sean Azad	Larry Sarver	Brian Dalmass
Email	bbeers@baselinesystems.com	info@calsense.com	admin@dynamax.com	david.shoup@hunterindustries.com	sales@irrometer.com	sales@morph2o.com	sazad@rainbird.com	lsarver@tucor.com	info@ugmo.com
Website	www.baselinesystems.com	www.calsense.com	www.dynamax.com	www.hunterindustries.com	www.irrometer.com	www.morph2o.com	www.rainbird.com	www.tucor.com	ugmo.com
Number of Residential Model Types	1		1	1	1	1	1		1
Number of Commercial Model Types	3	1	2	1	3	1	1	2	1
Date Product(s) Entered Market	2002	1986	2006	2014	1985	2008	2009	2008	2009
Method of Operation									
Interrupts Operation of All Stations	✓		✓	✓	Residential Models			✓	✓
Interrupts Operation of Individual or Groups of Sta	✓	✓	Requires Multiple Controllers	✓	Commercial Models	✓	✓	✓	✓
Product Features									
Standalone Controller or Add-on to Existing	Standalone & Add-on	Standalone	Standalone & Add-on	Add-on	Add-on	Add-on	Add-on	Standalone	Standalone & Add-on
Type of Soil Moisture Sensor(s)	TDT	Tensiometer	FDR	Electrical Resistance	Electrical Resistance	FDR	TDT	FDR	FDR
Multiple Soil Moisture Sensors May Be Used	Commercial Models	✓	Requires Multiple Controllers	✓	Commercial Models			✓	✓
Soil Moisture Sensor Capacity	6 & 25	48	1 & 2		1 - 16	1	1	10	255
Connect to Existing Valve Wiring	✓	✓			Commercial Models	✓	✓		✓
Number of Soil Moisture Settings	Unlimited	Unlimited	51 & 0-60%	5	4, 9, & 11			Unlimited	10
Measures and Adjusts for Soil Conductivity		✓			Internally Compensated		✓		✓
Controller Displays Soil Conductivity							✓		✓
Measures and Adjusts for Soil Temperature	✓						✓		✓
Controller Displays Soil Temperature	Commercial Models						✓	✓	✓
Controller Station Capacity	12 - 200	8 - 48	Unlimited		Unlimited	4		25 - 100	36
Master Valve or Pump Circuit(s)	Commercial Models	2						3	✓
Internal Power Transformer	Commercial Models	✓						✓	✓
Battery Powered - DC	Commercial Models		Option Available		One Model				
Station Circuit Current Rating (Amperes)		1.5	3 & 10				2.5		✓
Outdoor Installation	✓[1]	✓	✓[1]	✓	All Models, Commercial option	✓	✓	✓[1]	✓
Rain Gauge or Sensor Compatible w/ Rain Shuto	✓	✓			✓		✓	✓	✓
Flow Sensor Compatible	Commercial Models	✓	✓		✓			✓	✓
Additional Sensor Terminals	Commercial Models	✓	✓		✓			✓	✓
Remote Control Device for Controller	Commercial Models	✓[1]	✓					✓	Use Phone
System Testing and Diagnostics	✓	✓						✓	✓
Surge and/or Lightning Protection	✓	✓[1]			✓		✓	✓	✓
SWAT Test Performance Report Available	✓				✓	✓	✓		✓
Scheduling Features (Standalone only)									
Fully Automatic Schedule (No Base Schedule Rec	Commercial Models		Commercial Models						✓
Variable Total Run Times	Commercial Models	✓	Commercial Models						✓
User May Define Non-Irrigation Days	Commercial Models	✓						✓	✓
Operable in Manual Clock Mode	✓	✓						✓	✓
Manual Operation by Station or Program	Commercial Models	✓						✓	✓
Irrigation Schedule Period(s)	All options available	7, 14, 21, or 28 day						✓	✓
Cycle/Soak Manual Input	✓	✓						✓	✓
Cycle/Soak Periods Automatically Calculated									✓
Available Start Times	8	6						12	6
Irrigation Pause/Resume	Commercial Models	✓						✓	✓
Runs Concurrent Stations	Commercial Models	✓	✓					10	3
Number of Programs	40 & 99	7	2					12	6
Syringe Cycle or Program	Commercial Models	✓						✓	✓
Review of Recent Irrigation Information	Commercial Models	✓						✓	✓
English and Spanish Languages Display		✓						Universal Display	
Product Support and Warranty									
Warranty	10 years	10 years	1 year	5 years	1 year	2 years	1 year	1 - 5 years	For life of contract
Support — On-site Service Technicians		✓	Some Locations	✓	Some locations				✓
All companies offer email support — Telephone Technicians	✓	✓	✓		✓	✓	✓	✓	✓
All companies offer email support — Online Chat									
All companies offer email support — Local Distributors		✓	Some Locations	✓	✓	✓	✓	✓	
Installation, Maintenance, & Cost									
Professional Installation & Programming Recomm	Commercial Models	✓	Commercial Models	✓	Commercial Models		✓	✓	✓
Battery Replacement Required			Optional			✓			Yes
Suggested Retail Price[2]	$165 - $4,630	$1,285 - $4,160	$525 - $1,045	$153	$100 - $3,146	$250 and up	$209	$1,470 - $2,160	

1 - Optional add-on feature not included in controller price(s) shown; 2 - Automatically applies local non-irrigation day restrictions; 3 - Using IFTTT applet; 4 - ST8-WIFI controller only; 5 - ESP-TM2 & ESP-Me only