

Weather-Based Irrigation Technologies—Summary of Product Information and Features Continued

Company Info		Hydro-Rain	Irritrol®	MC Smart Controls	Netro, Inc.	NxEco	Orbit	Plaid Systems, LLC.	Rain Bird (ESP-SMTe)
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Website	www.irritrol.com		www.mcsmartcontrols.com	www.netrohome.com	nxeeco.com		blyve.orbitonline.com	spruceirrigation.com	wifi.rainbird.com
Number of Residential Models	2		1	2	3		4	1	2
Number of Commercial Models	3		2	1	2		2016	2017	2016
Year Product(s) Entered Market	2011		2017	2016	2015		2016		
Method of Estimating Water Need									
Basis for Schedule:	Historical Data								
	On-site Station/Sensor(s)								
	Remote Station(s)/Sensor(s)								
	Weather Forecasts								
Weather Data Source	Weather forecast received from the internet	On-site temp, solar, and rain sensors with historic data backup	Local or on-site weather station data received from the internet and on-site sensors	Weather forecast and measured rainfall received from the internet. Optional on-site sensor array.	Local NOAA weather stations & weather forecast received from the internet		Weather forecast received from the internet	Optional	Onsite rain/temperature sensor
Product Features									
Standalone Controller or Add-on to Existing Station or Zone Capacity	Standalone 8-16	Controller w/ Add-on 6-12	Standalone 12	Standalone 8-12	Standalone 8-36	Standalone 4-12	Standalone 4-22	Standalone 16	Standalone 4-22
Master Valve or Pump Circuit(s)	✓	1	1	1	✓	✓	✓	1	✓
Internal Power Transformer	✓	Some Models	✓	✓	✓	✓	✓	✓	Outdoor Models
Battery Powered - DC									
Station Circuit Current Rating (Amperes)	0.4	1.0	1.0	1.0	0.75	0.4	0.9	0.9	1.0
Terminal Wire Size Range (Gauge)	14-22	12-18	14-24	14-24	12-20	14-22	18	18	14-20
Outdoor Installation	✓	Hygroscopic Rain Sensor	✓	✓	✓	✓	✓	✓	Outdoor Models
On-site Rain Gauge or Sensor w/ Rain Shut-off/Delay	✓		✓	✓	✓	✓	✓	✓	✓
Rain Shut-off/Delay by Remote Sensor or Forecast	✓		✓	✓	✓	✓	✓	✓	✓
Rainfall Irrigation Schedule Compensation	✓		✓	✓	✓	✓	✓	✓	✓
On-site Wind Gauge w/ High Wind Shut-off	✓		✓	✓	✓	✓	✓	✓	✓
High Wind Shut-off by Remote Sensor	✓		✓	✓	✓	✓	✓	✓	✓
On-site Temperature Sensor w/ Freeze Shut-off	✓		✓	✓	✓	✓	✓	✓	✓
On-site Temperature Sensor w/ High Temp On or Off	✓		✓	✓	✓	✓	✓	✓	✓
Freeze or High Temp Shut-off by Remote Sensor	✓		✓	✓	✓	✓	✓	Freeze	✓
On-site Evaporative Atmometer Type "ET Sensor"	✓		✓	✓	✓	✓	✓	✓	✓
On-site Solar Radiation Sensor	✓		✓	✓	✓	✓	✓	✓	✓
On-site Humidity Sensor	✓		✓	✓	✓	✓	✓	✓	✓
Flow Sensor(s) Connectivity	Additional Sensor Terminals	1	1	1	Soil Moisture	✓	✓	✓	✓
Internet or Computer Interface	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remote Control Device(s) for Controller	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two-way Communication with Server	✓	✓	✓	✓	✓	✓	✓	✓	✓
Station Circuit Testing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Surge and/or Lightning Protection	✓	✓	✓	✓	✓	✓	✓	✓	✓
EPA WaterSense Certification	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scheduling Features									
Fully Automatic Schedule Generation	✓	✓	✓	✓	✓	✓	✓	✓	✓
Base Irrigation Schedule Required	✓	✓	✓	✓	✓	✓	✓	✓	✓
User May Define Non-Irrigation Days	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operable in Manual Clock Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual Operation by Station or Program	✓	✓	✓	✓	✓	✓	✓	✓	✓
Variable Total Run Times	31 or 365	9	4	4	Unlimited	✓	✓	✓	Days of Wk, Odd/Even, Cyclical
Number of Irrigation Schedule Period(s)	9	3	4	4	✓	✓	✓	✓	6
Cycle/Soak Manual Input	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Concurrent Stations	3	3	3	3	✓	✓	✓	✓	2
Runs Concurrent Stations	✓	✓	✓	✓	✓	✓	✓	✓	✓
Percent Irrigation Adjust Feature	✓	✓	✓	✓	✓	✓	✓	✓	✓
Station Distribution Uniformity/Efficiency Setting	✓	✓	✓	✓	✓	✓	✓	✓	✓
Synge Cycle or Program	✓	✓	✓	✓	✓	✓	✓	✓	✓
New Landscape Establishment/Fertilizer Program	✓	✓	✓	✓	✓	✓	✓	✓	✓
Review of Weather Information	✓	✓	✓	✓	✓	✓	✓	✓	✓
Review of Irrigation or Water Use Information	✓	✓	✓	✓	✓	✓	✓	✓	✓
English and Spanish Languages Display	✓	✓	✓	✓	✓	✓	✓	✓	✓
Product Support and Warranty									
Warranty	2 years	5 years	3 years	2 years	2 year	2 years	2 years	1 year	3 years
Support:	On-site Service Technicians	✓	✓	✓	✓	✓	✓	✓	✓
All companies offer	Telephone Technicians	✓	✓	✓	✓	✓	✓	✓	✓
email support	Online Chat	✓	✓	✓	✓	✓	✓	✓	✓
	Local Distributors	✓	✓	✓	✓	✓	✓	✓	✓
Installation, Maintenance, & Cost									
Professional Installation & Programming Recommended	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ongoing Maintenance Required	✓	✓	✓	✓	✓	✓	✓	✓	✓
Battery Replacement Required	✓	✓	✓	✓	✓	✓	✓	✓	✓
Suggested Retail Price	\$185 - \$225	Clean Solar Sensor	\$250	\$120 - \$150	\$120 - \$215	\$60 - \$120	Clean Sensors	Clean Sensors	Clean Sensor
Annual Service Cost		\$353 - \$661			\$0		Soil-Moisture Sensors	Soil-Moisture Sensors	\$313 - \$47

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 - STB-WIFI controller only; 5 - ESP-TM2 & ESP-Me only

Weather-Based Irrigation Technologies—Summary of Product Information and Features Continued

		Rain Bird (ST8-WIFI & ESP-TM2 or ESP-Me w/LNK)	Rain Master®	Scotts Miracle Gro	Signature Control Systems	Toro®	Tucor	Weathermatic®
Company Info								
Telephone		(800) 724-6247	(951) 795-3463	937-653-4576	(949) 390-4778	(951) 765-3515	(800) 272-7472	(972) 278-6131
Contact Person		Jenae Harris	Sergio Ramos	Kim Markus	Don Clark	Robert Starr	Larry Server	Bradie Bruner
Email		jharris@rainbird.com	sergio.ramos@rainmaster.com	kim.markus@scotts.com	don.clark@scsncs.com	robert.starr@toro.com	lserver@tucor.com	info@weathermatic.com
Website		wifi-pro-rainbird.com	www.rainmaster.com	mygro.com	www.signaturecontrolsystems.com	www.toro.com	www.tucor.com	www.weathermatic.com
Number of Residential Models		8	2	1	3	1	1	1
Number of Commercial Models			0	1	5	1	3	3
Year Product(s) Entered Market		2016	2002	Jan 2018	2013	2013	1995	2004
Method of Estimating Water Need								
Basis for Schedule:	Historical Data	✓	✓	✓	✓	✓	✓	✓
	On-site Station/Sensor(s)	✓	✓	✓	✓	✓	✓	✓
	Remote Station(s)/Sensor(s)	✓	✓	✓	✓	✓	✓	✓
	Weather Forecasts	✓	✓	✓	✓	✓	✓	✓
Weather Data Source	Weather forecast received daily from the internet	✓	Automatic, historic or manually entered ET or with optional on-site weather station	Real-time weather data from local stations and satellites	Proprietary	On-site temp, solar, and rain sensors with historic data backup	Automatic, historic or manually entered ET or with optional on-site weather station	On-site temp & rain sensor and solar radiation estimated based on date & location
Product Features								
Standalone Controller or Add-on to Existing Station or Zone Capacity	Standalone & Add-on	4 - 22	Standalone 6 - 200	Standalone 7	Standalone 4 - 24	Controller w/ Add-on 4 - 16	Standalone 25 - 100	Standalone 4 - 96
Master Valve or Pump Circuit(s)	✓	✓	1 - 2	✓	✓	✓	3	2
Internal Power Transformer	Outdoor Models	✓	✓	✓	Outdoor Models	✓	✓	Some Models
Battery Powered - DC								Optional Solar
Station Circuit Current Rating (Amperes)	1.0	1.0	1.0	0.5	0.5	1.25	Not Reported	1.2
Terminal Wire Size Range (Gauge)	14 - 20	12 - 14	12 - 14	✓	12 - 18	✓	14, 16, 18	14 - 18
Outdoor Installation	✓	✓	✓	✓	✓	✓	✓	✓
On-site Rain Gauge or Sensor w/ Rain Shut-off/Delay	✓	✓	✓	✓	✓	✓	✓	✓
Rain Shut-off/Delay by Remote Sensor or Forecast	✓	✓	✓	✓	✓	✓	✓	✓
Rainfall Irrigation Schedule Compensation	✓	✓	✓	✓	✓	✓	✓	✓
On-site Wind Gauge w/ High Wind Shut-off	✓	✓	✓	✓	✓	✓	✓	✓
High Wind Shut-off by Remote Sensor	✓	✓	✓	✓	✓	✓	✓	✓
On-site Temperature Sensor w/ Freeze Shut-off	✓	✓	✓	✓	✓	✓	✓	✓
On-site Temperature Sensor w/ High Temp On or Off	✓	✓	✓	✓	✓	✓	✓	✓
Freeze or High Temp Shut-off by Remote Sensor	✓	✓	✓	✓	✓	✓	✓	✓
On-site Evaporative Atmometer Type "ET Sensor"	Alarm ¹	✓	✓	✓	✓	✓	✓	✓
On-site Solar Radiation Sensor	✓	✓	✓	✓	✓	✓	✓	✓
On-site Humidity Sensor	✓	✓	✓	✓	✓	✓	✓	✓
Flow Sensor(s) Connectivity	Soil Moisture ¹	✓	✓	✓	✓	✓	✓	✓
Additional Sensor Terminals	✓	✓	✓	✓	✓	✓	✓	✓
Internet or Computer Interface	✓	✓	✓	✓	✓	✓	✓	✓
Remote Control Device(s) for Controller	✓	✓	✓	✓	✓	✓	✓	✓
Two-way Communication with Server	✓	✓	✓	✓	✓	✓	✓	✓
Station Circuit Testing	✓	✓	✓	✓	✓	✓	✓	✓
Surge and/or Lightning Protection	✓	✓	✓	✓	✓	✓	✓	✓
EPA WaterSense Certification	✓	✓	✓	✓	✓	✓	✓	✓
Scheduling Features								
Fully Automatic Schedule Generation	✓	✓	✓	✓	✓	✓	✓	✓
Base Irrigation Schedule Required	✓	✓	✓	✓	✓	✓	✓	✓
User May Define Non-Irrigation Days	✓	✓	✓	✓	✓	✓	✓	✓
Operable in Manual Clock Mode	✓	✓	✓	✓	✓	✓	✓	✓
Manual Operation by Station or Program	✓	✓	✓	✓	✓	✓	✓	✓
Variable Total Run Times	✓	✓	✓	✓	✓	✓	✓	✓
Number of Irrigation Schedule Period(s)	Days of Wk, Odd/Even, Cyclical	3 - 4	7 or 30 Day	Up to 31 Days & Odd/Even	Up to 31 Days & Odd/Even	3	14 Day & Odd/Even	Days of Week/Mos. & Odd/Even
Number of Available Start Times	3 - 4	5 - 8	5 - 8	4	4	4	12	8
Cycle/Soak Manual Input	✓	✓	✓	✓	✓	✓	✓	✓
Cycle/Soak Periods Automatically Calculated	✓	✓	✓	✓	✓	✓	✓	✓
Runs Concurrent Stations	✓	✓	✓	✓	✓	✓	✓	✓
Number of Programs	3 - 4	✓	4 - 16	✓	16	4	10	4
Percent Irrigation Adjust Feature	✓	✓	✓	✓	✓	✓	✓	✓
Station Distribution Uniformity/Efficiency Setting	✓	✓	✓	✓	✓	✓	✓	✓
Synge Cycle or Program	✓	✓	✓	✓	✓	✓	✓	✓
New Landscape Establishment/Fertilizer Program	✓	✓	✓	✓	✓	✓	✓	✓
Review of Weather Information	✓	✓	✓	✓	✓	✓	✓	✓
Review of Irrigation or Water Use Information	✓	✓	✓	✓	✓	✓	✓	✓
English and Spanish Languages Display	✓	✓	✓	✓	✓	✓	✓	✓
Product Support and Warranty								
Warranty Support:	3 years	5 years	2 years	2 years	2 years	5 years	1 - 5 years	2 - 10 years
On-site Service Technicians	✓	✓	✓	✓	✓	✓	✓	✓
Telephone Technicians	✓	✓	✓	✓	✓	✓	✓	✓
Online Chat	✓	✓	✓	✓	✓	✓	✓	✓
email support	✓	✓	✓	✓	✓	✓	✓	✓
Local Distributors	✓	✓	✓	✓	✓	✓	✓	✓
Installation, Maintenance, & Cost								
Professional Installation & Programming Recommended	✓ ³	✓	Yes, But Not Required	Yes, But Not Required	Recommended	Recommended	Recommended	Recommended
Ongoing Maintenance Required	✓	✓	✓	✓	✓	✓	✓	✓
Battery Replacement Required	✓	✓	✓	✓	✓	✓	✓	✓
Suggested Retail Price	\$179 - 415	\$600 - \$6,000	\$150	\$222 - \$485	\$353 - \$548	\$1,290 - \$1,980	\$292 - \$2,625	\$292 - \$2,625
Annual Service Cost		\$120 - \$180		Optional After First Year		\$72 - \$360		

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