Mottech Water Management

MOTOROLA SOLUTIONS

MOTTECH DECODER SYSTEM (MDS)

The MDS, a reliable, high efficiency, 2-wire decoder solution providing a substantial reduction of buried wire used for valve control and true flexibility for future expansion of existing systems

Each decoder connected to the 2-wire cable, functions as both a switching mechanism providing 24VAC to each valve and in a supervisory role monitoring critical solenoid parameters.

True two-way communications between the interface and the decoders, provide diagnostic capabilities for monitoring the general health of the 2-wire cable, decoders, and valve solenoids.

MAIN FEATURES

ADVANCED DIAGNOSTIC TOOLS

ROBUST, WATERPROOF AND RELIABLE

DIGITAL AND ANALOG SENSOR DECODER

The MDS is an integral part of the IRRInet system and the ICC PRO platform. The decoders can be mixed with existing and future Motorola IRRInet products, providing a highly flexible, expandable solution for any application including new installations and retrofits of existing systems.

200
DECODERS PER IRRI-M

200/400
DECODERS PER ACE

30
DECODERS ACTIVE AT THE SAME TIME

4
TYPES OF OUTPUT DECODER

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SPECIFICATIONS

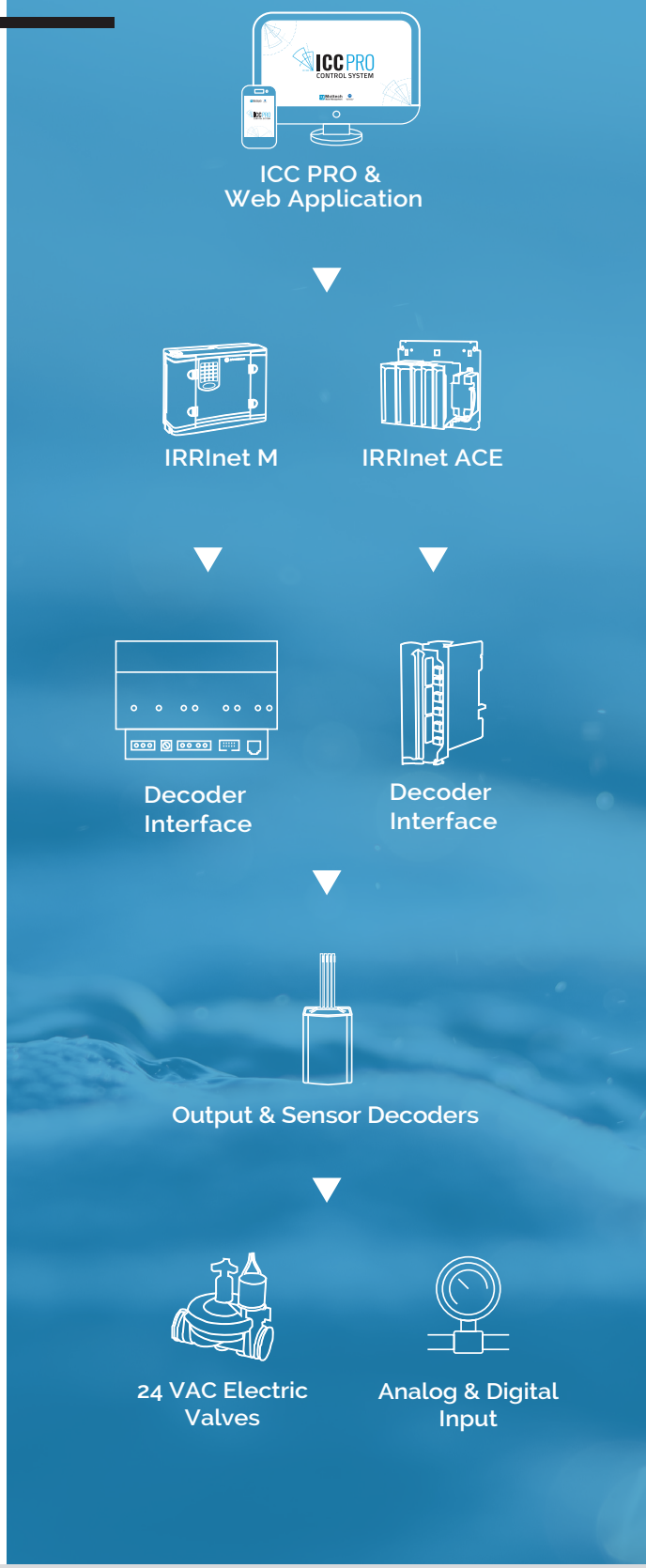
Output Decoders	1, 2, 4, 6 Solenoids
Sensor Decoders	Inputs: 1
Capacity	200 decoders p/ 2-wire interface IRRI-M: 200 decoders max. ACE: 400 decoders max.
Approvals	CE (European) marked and compliant
Output Voltage	24VAC solenoids
Input Formats	Digital: Contact or pulses Analog: 4-20mA, 0-10VDC or 0-xVDC
Surge Protection Decoders	Lightning and Surge Protection Built-in Surge Protection (in models 2,4,6 outputs)
Compatibility with the IRRInet system	ICC PRO - 5.5 and above IRRIV - 8.5 and above

2-WIRE SIZING

Maximum length of critical wire path

Nominal wire size - metric wire size	Maximum length of critical wire path			
	Loop		Star	
	km	miles	km	miles
1.5mm²	8.8	5.5	2.2	1.3
2.0mm²	11.6	7.2	2.9	1.8
2.5mm²	14.8	9.2	3.7	2.3
3.0mm²	17.6	10.8	4.4	2.7
3.5mm²	20.4	12.8	5.1	3.2
4.0mm²	23.2	14.4	5.8	3.6

Nominal wire size - imperial wire size				
	Loop		Star	
16 AWG	9.2	5.6	2.3	1.4
14 AWG	14	8.8	3.5	2.2
12 AWG	22.4	14	5.6	3.5



For design and technical information visit our website
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