





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







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

Maximum length of critical wire path			
Loop		Star	
km	miles	km	miles
8.8	5.5	2.2	1.3
11.6	7.2	2.9	1.8
14.8	9.2	3.7	2.3
17.6	10.8	4.4	2.7
20.4	12.8	5.1	3.2
23.2	14.4	5.8	3.6
	8.8 11.6 14.8 17.6 20.4	Loop km miles 8.8 5.5 11.6 7.2 14.8 9.2 17.6 10.8 20.4 12.8	Loop St km miles km 8.8 5.5 2.2 11.6 7.2 2.9 14.8 9.2 3.7 17.6 10.8 4.4 20.4 12.8 5.1

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		

