

Hybrid 3D



SPECIFICATION

BUSINESS FIELD

- LANDSCAPE & TURF
- GREENHOUSE, NURSERY & INDUSTRIAL
- AGRICULTURE
- GOLF

The Tucor Hybrid 3D is a simple, innovative and inexpensive conversion system.

Use your favorite conventional controller and Tucor's Hybrid 3D allows you to:

- Add a Master Valve and Flow Meter to your system on top of your existing valves' common and control wires.
- Add multiple valves to your existing system with wires already in place.
- Convert your conventional controller to a Tucor 2 Wire decoder system.

No need to run wires back to your controller to expand existing system. Enjoy all the advantages of 2 wire with the controller you already use.

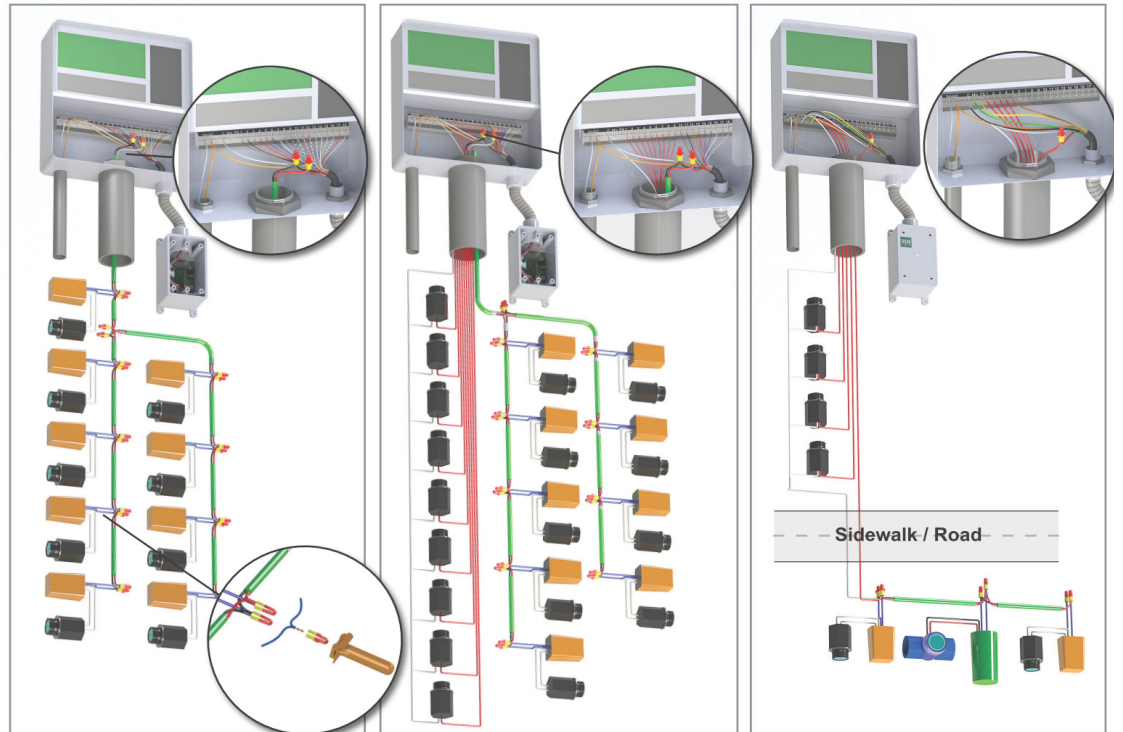
Convert your favorite controller to 2-wire!



Hybrid 3D on a conventional controller

2-wire Distances (ft)

Simultaneous Operation	18 AWG	16 AWG	14 AWG
1 valve	3000	6000	8000
1 valves or 1 valve + MV	2300	4600	6000
3 valves or 2 valves + MV	1500	3000	4000



New 2-wire conversion

Hybrid with existing conventional plus new 2-wire

Add Flow and Master Valve on existing wire



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Specifications:

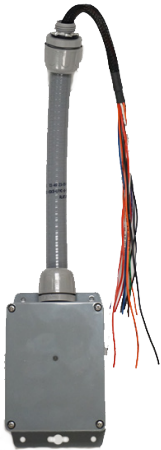
- 24 VAC, sourced from current controller
- 24 station inputs; 48 with additional 3D installed in parallel
- Each 3D has 1 Master Valve and 1 Flow Sensor input
- Up to 3 stations simultaneously
- 2-Wire distances up to 8000 feet
- Status LEDs
- Decoders programmed at the 3D or with the optional programmer

Requirements:

- 3DLD-050 decoders for converted stations and Master Valve
- 3DSD-100 sensor decoder for Flow Sensor
- For Master Valve and Flow Sensor inputs, current controller must support them

Options:

- 3D-DL: Dynamic load for controllers that measure electrical current prior to and during the solenoid operation
- HCP-100: Handheld programmer
- 3D-SD-100-M: sensor decoder for flow sensors having a photo diode (e.g., Hydrometer PDH)



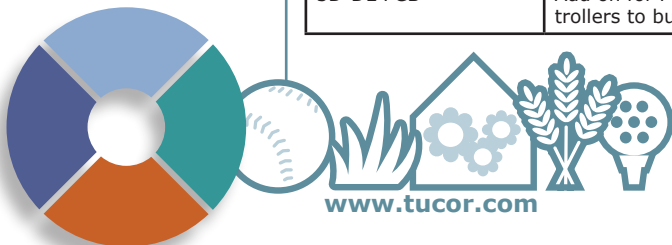
3D 6



3D 24

How to Order:

Hybrid 3D	
Part Number	Product Description
3D-6	3D with 2 wire output for up to 6 valves, flow sensor, master valve, Nema 4X enclosure with flex conduit connection.
3D-6-ASSY	Preprogrammed assembly with 3D-6 with 3DSD-FMV combo decoder and 3DLD-050-1 transition decoder
3D-6-DL	3D with 2 Wire Output for up to 6 valves, flow sensor, master valve, NEMA 4x enclosure and flex conduit connection and factory installed DL-PCB
3D-24	3D with 2 Wire Output for up to 24 valves, flow sensor, master valve, NEMA 4x enclosure and flex conduit connection
3D-24-DL	3D with 2 Wire Output for up to 24 valves, flow sensor, master valve, NEMA 4x enclosure and flex conduit connection and factory installed DL-PCB
3D DECODERS	
3DLD-050	Single Valve Line Decoder for use with 3D. MUST PROGRAM
3D-FMV-M	Combination 3DSD-100-M and 3DLD050-MV For flow sensor and master valve
3DLD-050-MV	Preprogrammed Single Valve Line Decoder for use with 3D 1 MV
3DLD-050-1	Preprogrammed Single Valve Line Decoder for use with 3D 1 Brown
3DLD-050-2	Preprogrammed Single Valve Line Decoder for use with 3D 2 Black
3DLD-050-3	Preprogrammed Single Valve Line Decoder for use with 3D 3 Orange
3DLD-050-4	Preprogrammed Single Valve Line Decoder for use with 3D 4 Red
3DLD-050-5	Preprogrammed Single Valve Line Decoder for use with 3D 5 Violet
3DLD-050-6	Preprogrammed Single Valve Line Decoder for use with 3D 6 Blue
3DSD -100	Flow Sensor Decoder for 3D
3DSD-100-M	Flow Sensor Decoder for 3D with 5 VDC for photo diode register. (Hydrometer)
3D WITH FLOW ASSEMBLY	
3D-6-FA -1	"Flow Assembly includes the 3D-6-ASSY, 1" flow sensor with plastic tee fitting Includes 3D-FMV-M Sensor/MV decoder"
3D-6-FA -1.5	"Flow Assembly includes the 3D-6-ASSY, 1.5" flow sensor with plastic tee fitting Includes 3D-FMV-M Sensor/MV decoder"
3D-6-FA -2	"Flow Assembly includes the 3D-6-ASSY, 2" flow sensor with plastic tee fitting Includes 3D-FMV-M Sensor/MV decoder"
3D WITH FLOW ASSEMBLY (HYDROMETER PDR)	
3D-6-HM-PDR-NO-1.5	Flow assembly includes the 3D-6-ASSY, 1.5" Hydrometer with high frequency photo diode / N.O. master valve valves Includes 3D-FMV-M Sensor/MV decoder
3D-6-HM-PDR-NO-2	Flow assembly includes the 3D-6-ASSY, 2" Hydrometer with high frequency photo diode / N.O. master valve valves Includes 3D-FMV-M Sensor/MV decoder
3D-6-HM-PDR-NO-3	Flow assembly includes the 3D-6-ASSY, 3" Hydrometer with high frequency photo diode / N.O. master valve valves Includes 3D-FMV-M Sensor/MV decoder
3D-6-HM-PDR-NO-4	Flow assembly includes the 3D-6-ASSY, 4" Hydrometer with high frequency photo diode / N.O. master valve valves Includes 3D-FMV-M Sensor/MV decoder
3D COMPONENTS	
3D-DL-PCB	Add on for PCB Board with Dynamic Load Feature for ETWater, WeatherTrak and Rain Master Controllers to buffer line voltage monitoring



The Hybrid 3D is protected under U.S. Patent 5839658