



# 3D-FMV Assembly (3D-FMV-A)



## Applications

- Landscape & Turf
- Greenhouse, Nursery & Industrial
- Agriculture
- Golf

Tucor's 3D-FMV Assembly ("3D-FMV-A") provides everything you need to add a flow sensor and master valve to any controller without running wires back to the controller. By sharing the controller's existing valve wiring, the 3D-FMV Assembly allows you to add a flow meter and master valve to any conventional controller with less wire, trenching & labor.

## Tucor's 3D-FMV Assembly provides:

- Compatibility with the industry's leading conventional controllers
- Savings on wire: proprietary 2-Wire wire sharing technology requires minimal trenching & less wire
- Ready-to-install assembly, complete with 3D-2 adaptor, decoders & splice kits
- Compatibility with all major flow sensors, including Tucor's new Ultrasonic Flow Meter Assembly

### Every 3D-FMV Assembly Includes:

- 3D-2: 3D 2-Wire adaptor for flow and master valve
- 3D-FMV-M: combined flow meter and master valve decoder with LED lights
- 3DLD-050: valve decoder and transition from existing system to flow meter & master valve connection
- Installation Aids: wire splices, both internal and external mounting options



**3DLD-050 & 3D-FMV-M  
DECODERS WITH LED LIGHTS**



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# 3D-FMV Assembly (3D-FMV-A)



## SPECIFICATIONS

Installation - Controller	Wire 3D-2 adaptor directly to existing controller terminals
Installation - Field	No existing master valve; add via 3DLD-050 decoder to begin 2-Wire path
	Existing master valve; wire 3D-FMV-M directly to master valve wires and flow sensor
2-Wire distances	18 AWG; 3,000 ft
	16 AWG; 6,000 ft
	14 AWG; 8,000 ft
<b>3D-2 ADAPTOR</b>	
Housing	Schedule 80 PVC
Outputs	2 outputs; 1 master valve and 1 transition valve
Power	24 VAC, sourced from current controller
LED Indicator Lights	Green for Ready or Active, Red for Error
<b>3DLD-050</b>	
Function	Acts as transition point between conventional valve wire and 2-Wire path
LED Light Indicators	Steady Blue for system active, Steady Green for valve active
Programming	None required, pre-programmed
Wire	(2) Blue for Line, (2) White for solenoid
<b>3D-FMV-M</b>	
Function	Combination flow meter and master valve decoder, add directly to 2-Wire path or share existing master valve wires if just adding flow sensor
LED Light Indicators	Blinking White for flow sensor active; Steady Blue for system connected, Steady Green for master valve active
Programming	None required, pre-programmed
Wire	Red & Black for Flow+ & Flow-, (2) Blue for Line, (1) Green/Yellow striped for Ground, (2) White for solenoid, Orange (Optional) for 5 VDC Power for Photo Diode

## HOW TO ORDER

3D-FMV-A	Tucor Preprogrammed System Assembly with 3D-2, 3D-FMV-M Combined Flow Sensor/Master Valve Decoder with LED diagnostics and 3DLD-050 Valve Transition Decoder. Includes NEMA 4X enclosure and flex conduit connection. Includes SnapTrack for internal installation.
<b>OPTIONAL COMPONENTS</b>	
3D-DL-PCB	Tucor add-on for PCB Board with Dynamic Load Feature required for ETWater, WeatherTrak and Rain Master Controllers to buffer line voltage monitoring.

