# TempMaster WFM



# WATER FLOW MONITORING SYSTEM

Coolant flow and temperature are often critical factors in achieving consistent production of quality molded parts and faster cycle times. Monitoring individual cooling circuits with WFM, compared with traditional flow regulators, offers molders an advanced solution that achieves greater process accuracy and confidence.

## **KEY FEATURES**

#### **MONITOR INDIVIDUAL CIRCUITS**

- Greater process accuracy.
- Quick ID and alerts to various common cooling circuit issues.
- Validate and optimize processes with greater confidence.

#### **IO ALARM INTERCLOCK**

- Triggers an alarm when issues are identified.
- Pauses the molding process until corrected.
- Helps maintain process consistency.

#### **ROBUST DESIGN**

- High accuracy electronic sensors contain no moving parts.
- Can easily tolerate contaminated water and harsh molding environments.
- Stainless steel manifolds prevent rust and contamination.
- High reliability and low maintenance.

#### **FLEXIBLE MOUNTING OPTIONS**

- · Attach to the fixed or moving half of the molding machine.
- Minimizes pipe runs to improve flow rates and reduce cycle times.
- Customizable to suit any customer needs.







# **EASY TO USE SCREENS**



View and manage controls on any laptop or integrated directly on a TempMaster M2+ touch screen to include integrated HRC control.

Display -	C ToolStore		-0-0 -	<u>소</u> 원 aph Pictu	-	Shutdo	wn Startup	) Standby	C) Boost	í
Nozzle 1	Nozzle 2	Nozzle 3	Nozzle 4	Nozzle 5	Nozzle 6	Nozzle 7	Nozzle 8	Nozzle 9	Nozzle 10	
250	250	250	250	250	250	250	250	250	250	
250°C	250°C	250°C	250°C	250°C	250°C	250°C	250°C	250°C	250°C	
0.90 A	0.90 A	0.90 A	0.90 A	0.90 A	0.90 A	0.90 A	0.90 A	0.90 A	0.90 A	$\diamond$
Nozzle 11	Nozzle 12	Nozzle 13	Nozzle 14	Nozzle 15	Nozzle 16	Manifold1	Manifold2	Manifold3	Manifold4	Mode
250 250°C	250 250°C	250 250°C	250 250°C	250 250°C	250 250°C	250 250°C	250 250°C	250 250°C	250 250°C	~
15.6 %	15.6 %	15.6 %	15.6 %	15.6 %	15.6 %	23.6 %	23.6 %	23.6 %	23.6 %	Page
0.90 A Bridge1	0.90 A Bridge2	0.90 A	0.90 A	0.90 A	0.90 A	1.40 A	1.40 A	1.40 A	1.40 A	
250	250	250	20.0	20.0	20.0	20.0	20.0	20.0	20.0	Page
250°C	250°C	250°C	20°C	20°C	20°C	20°C	20°C	20°C	20°C	1.
23.6 %	23.6 % 1.40 A	23.6 % 1.40 A	+0.0 D	+0.0 D	+0.0 D	+0.0 D	+0.0 D	+0.0 D	+0.0 D	Display
Tenp Ch 8	Water In	Flow Ch 1	Flow Ch 2	Flow Ch 3	Flow Ch 4	Flow Ch 5	Flow Ch 6	Flow Ch 7	Flow Ch 8	- Ca
20.0 20°C	20.0 20°C	10.0 10.0L	10.0 10.0L	10.0 10.0L	10.0 10.0L	10.0 10.0L	10.0 10.0L	10.0 10.0L	10.0 10.0L	Print
20 C	20 C	10.0L	10.0L	10.0L	10.0L	10.0L	10.02	10.0L	10.0L	
+0.0 D		16645 Re	16645 Re	16645 Re	16645 Re	16645 Re	16645 Re	16645 Re	16645 Re	
Mode S		Tool ID #1: W	aterflow			14 Apr 2	2022 16:40	System	Status	DEMO

#### Monitor

- Hot Runner Temperature
  (with optional M2+ integration)
- Water Temperature (°C or °F)
- Delta T
- Volume/Flow Rate (LPM or GPM)
- Reynolds #

- · Graphical display
- High/low alarm limits (zone)
- High/low warning limits (zone)

- Export data
- Separate alarm signals for water flow, water temperature and hot runners (opt.).

### **SPECIFICATIONS**

FLOW CAPACITY	NO. OF	CIRCUIT	SUPPLY	OP. TEMP.	MAX OP. PRESSURE	FLOW RESOLUTION
Range LPM (GPM)	Ports	Port	Port	Range (°C / °F)	Bar (PSI)	LPM (GPM)
1 - 40 (0.26 - 10)	4, 8, 12	3/8", 1/2"	1″	0 - 120 (32 - 248)	10 (145)	

#### **Options**

- Add functionality at any time without hassle.
- Daisy chain units to increase the number of zones.
- $\bullet$  Easy integration with all TempMaster M2+ Controllers.





Integrate WFM functionally into your M2+ hot runner temperature controller to centralize functionality, save valuable floor space and reduce costs. Unlock your operations full potential with TempMaster.