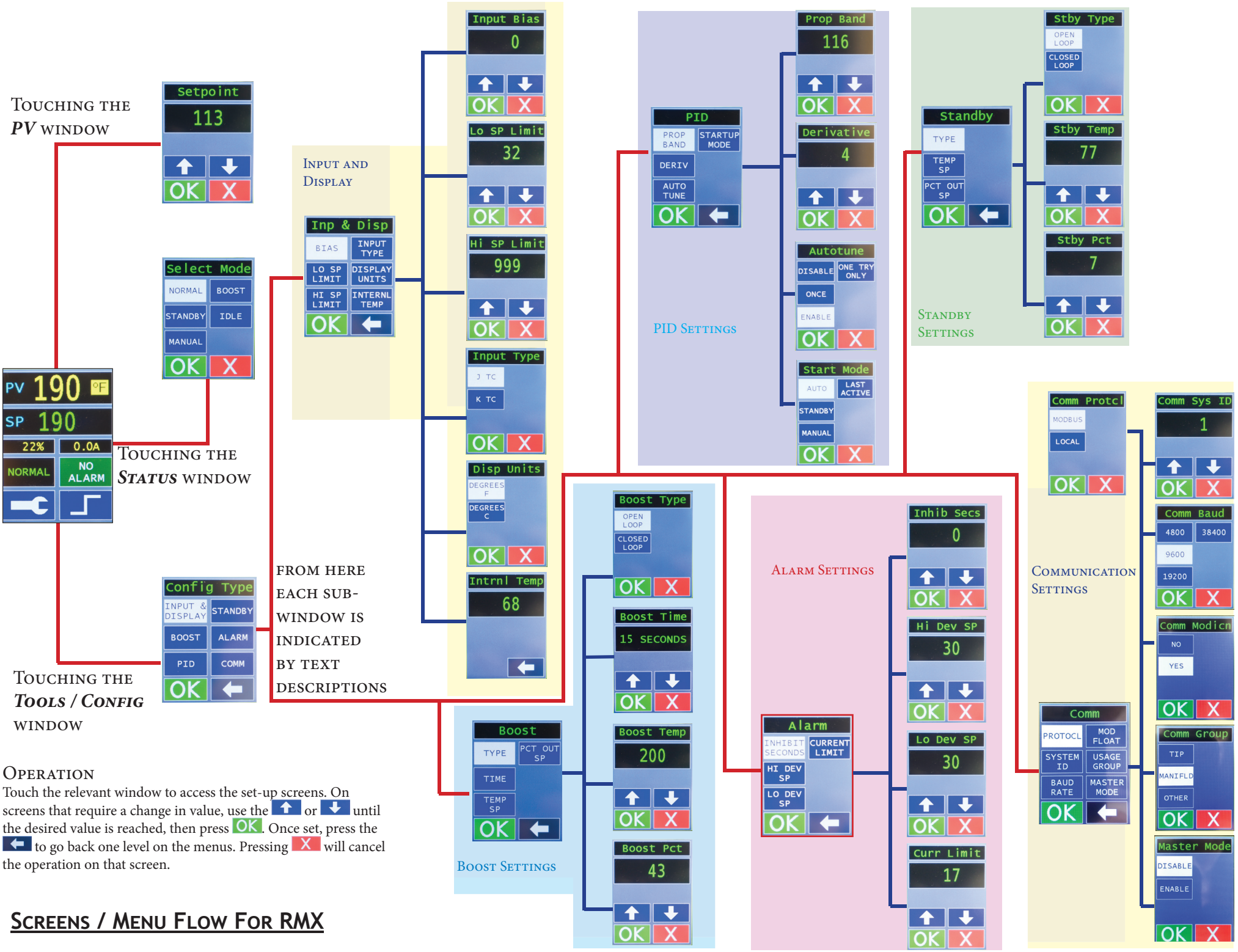


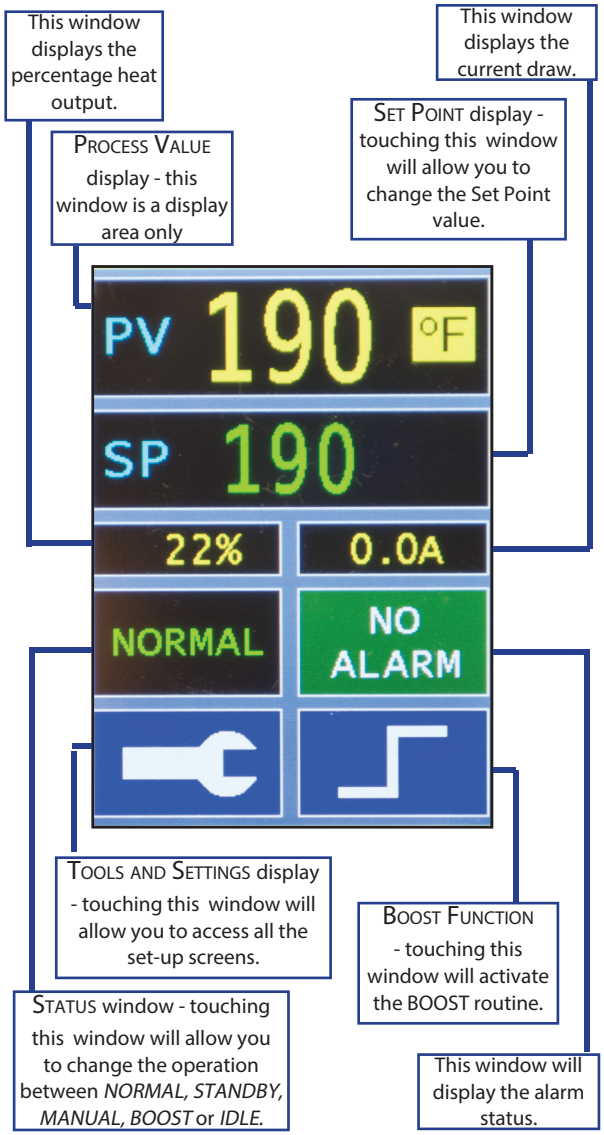
Operation

Touch the relevant window to access the set-up screens. On screens that require a change in value, use the ↑ or ↓ until the desired value is reached, then press OK. Once set, press the ← to go back one level on the menus. Pressing X will cancel the operation on that screen.

Screens / Menu Flow For RMX

Key To Operating Your Controller

The new RMX Modular Hot Runner controller is a microprocessor-based, single-zone temperature controller which features a modern touchscreen interface. The screen below is the 'Homescreen' and reversing back from all subscreens will return you to this screen. There follows a flowchart of the different screens that are accessible from the Homescreen. It should be noted that there are more complex set-up screens which are only available from within the Supervisor mode, but these are not described here.



Introduction

Athena's new Series RMX Modular Hot Runner controller is a microprocessor-based, single-zone temperature controller specifically designed for runnerless molding applications. The controller is fully self-tuning, with built-in diagnostics, and features an easy-to-use LCD operator touchscreen display for simultaneous process and set point displays and indicators for heat output, alarm, °F / °C, manual/ closed loop mode, and CompuStep

Key Specifications

Performance

Control Accuracy	±0.1°F (±0.1°C) dependent on the total thermal system
Ambient Temperature	32°F to 130°F (0°C to 55°C)
Temperature Stability	±0.5% of full scale over the ambient range of 32°F to 130°F (0°C to 55°C)
Power Response Time	Better than 200 ms

Input

Thermocouple (T/C) Sensor	Type "J" or "K" grounded or ungrounded (menu selectable)
Input Protection	Fuses, diode clamp, RC filter
Input Dynamic Range	Greater than 999°F (537°C)

Output

Voltages	240 Vac nominal, single phase 120 Vac available
Power Capability	15 amperes, 3600 watts @ 240 Vac
Ground Fault Interupt (GFI)	Trips at 55 mA of leakage current

Controls and Indicators

Set Point Control	Two buttons up or down on touchscreen
Range	0 to 999°F (535°C)
Resolution	1°F (1°C)
Display - Color LCD	Top: 3-digit Bottom: 3-digit
Voltages	240 Vac nominal, single phase 120 Vac available

ATHENA®

a higher level of control

Quick Reference Guide for Model RMX Modular Hot Runner Temperature Controller