

CV14 Safety and Control Module For Robotic Tool Changers



*CV14 Module,
Tool and Master sides*

Product Description

Smart manufacturing processes thrive with flexibility and timely, accurate communication. ATI's Control Modules are an efficient and safe way to integrate communication into robotic processes. Control Modules mount directly to the Tool Changer and allow users to verify processes and monitor an end-effector's status without entering the work cell.

ATI Control Modules feature Tool Stand Interlock (TSI) which further enhances the safety and performance of ATI Robotic Tool Changer Systems.

With TSI, the Control Module prevents accidental tool release by ensuring that tools are not uncoupled from the robot until they are safely supported in the Tool Stand.

Product Features

Safety is built in. Tool Stand Interlock (TSI) protects against accidental uncoupling.

Integrated pneumatic valve, air fittings, and lock/unlock air tubing are included for easy integration.

Compatible with QC-29 through QC-110 Tool Changers.

Tool-ID for end-effector verification, up to 16 tools.

M16 19-Pin connector for tool changer monitoring and pass-through power and signals.

Easy to use LEDs communicate tool changer status.

"Wired" module for direct connection to lock/unlock sensors on tool changer.

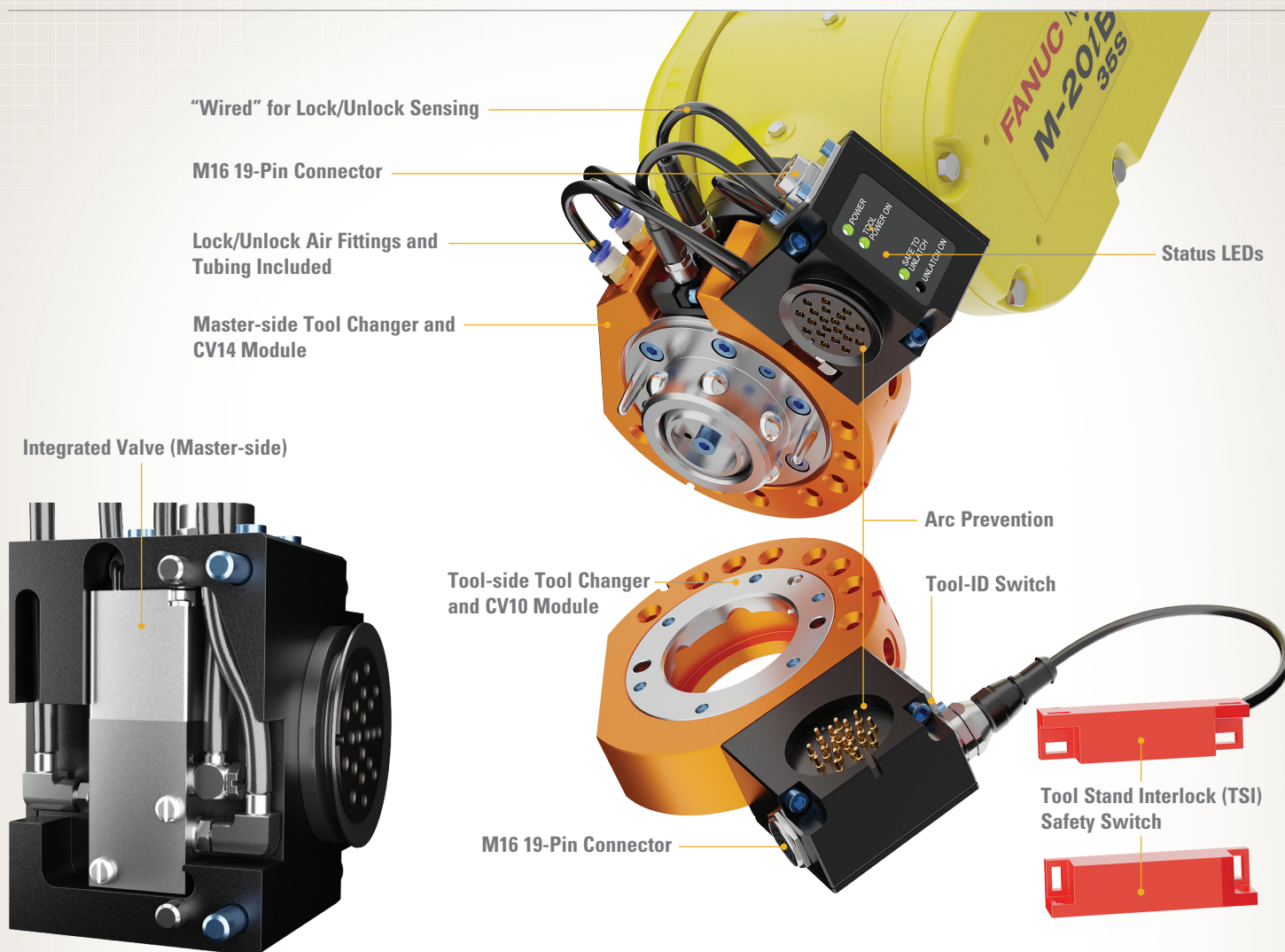
Arc Prevention (Patented) to protect electrical contacts for longer life.

ATI's TSI equipped Control Modules have been available for heavy duty tool changing systems for many years, and the new CV14 Control Module repackages this technology for smaller tool changers in the Standard Tool Changer product line.

The CV14 combines helpful features in a compact footprint that makes implementing your tool change system easier. It is ideal for use with standard series ATI Robotic Tool Changers, which are compatible with robot payloads from 25 -165 kg.

For more information, visit www.ati-ia.com/CV14.

CV14 Safety and Control Module



Specifications	Values
Electrical Interface	M16 19-pin Connector, 24V
TSI Safety Switch Interface	M12 4-Pin Connector
Tool-ID	16 Tools
Electrical Pass-Through	1 Arc Prevention Switched Power Circuit, 24V / 4A max., 8 Spare Signals, < 50V / 3A max.
Air Supply for Lock/Unlock	60-100 psi
Air Interface	6 mm Tubing, Push-To-Connect
Valve Type (Integrated)	5-Way, 2-Position, Single-Solenoid (Spring-to-Lock, Air-to-Unlock)
Lock/Unlock Sensor Interface	2 M8 3-pin Connectors, PNP or NPN

ATI reserves the right to change these specifications.