

RF Tool Controller – TCI 2



Lineside controller for assembly torque wrench management

The NEW TCI-2 lineside tool controller offers improved management and control of our digital torque wrenches with a host of new features. The TCI-2 lineside tool controller allows the user to connect and manage up to 5 digital torque wrenches for use in assembly and production applications.

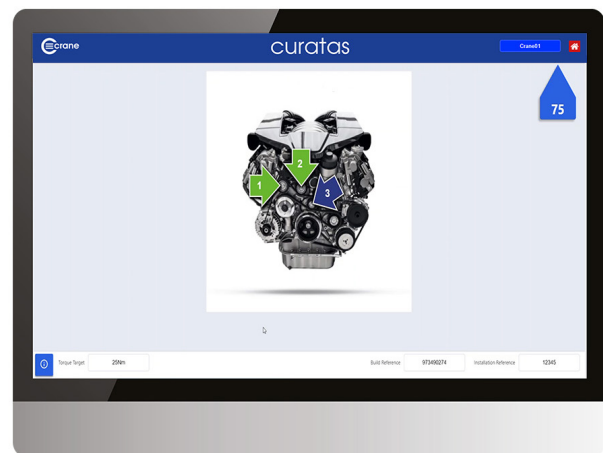
Unlike traditional tool controllers, the TCI-2 does not need to be located close to the tools it is managing when connected via Wi-Fi. The TCI-2 also acts as a guaranteed communication point for the end-users MES (Manufacturing Execution System) software.

The TCI-2 can be connected anywhere on a network and if a connected wrench should go offline or out of range, the controller will ensure that the MES will always have an end point to communicate with.

Setting up the wrench with jobs on the TCI-2 is simple. Torque results and readings are communicated back to and stored on the TCI-2, which can then be viewed on a PC or web page browser. The TCI-2 also has a web status page that allows the user to monitor all wrench connections and operations currently underway.

The TCI-2 also facilitates Curatas Wrench Control workstations, allowing operators to easily switch between torque wrenches with varying torque spans, to complete whole or part assemblies with ease.

- ▶ Controls both WrenchStar Multi and IQWrench3 digital torque wrenches from Crane.
- ▶ TCI-2 enables communication with users system or MES.
- ▶ Communication methods include: Open Protocol, MQTTS, XML and CIFS file transfer.
- ▶ Commands sent to the network via Ethernet or via selectable Wi-Fi; 5Ghz or 2.4Ghz.
- ▶ PSK and Enterprise security, encrypted communication and MITM attack prevention.
- ▶ Can connect to up to 5 wrenches simultaneously.
- ▶ LED status of connection to the host and wrenches.
- ▶ Easy Job/Pset configured via a web browser.
- ▶ HTTP content served via an HTTPS encrypted connection.
- ▶ Connected wrench autonomy with no data loss.



curatas
Wrench Control



- The MES (master system) will always have an end point of communication if a wrench goes offline (e.g. powered off, low battery or out of range).
- If a wrench goes offline, the TCI-2 has access to data such as when it was last online, the battery level, RSSI and the last 5000 results and 1000 traces recorded on each wrench.
- Real-time IOT dashboard showing the current state of all devices connected and disconnected from the TCI-2.
- The TCI-2 can communicate using MQTT, Open Protocol and many other protocols facilitating Industry 4.0 compliance.