



TOOL CONTROLLERS

Tool Controllers 110

Norbar's Tool Controllers are used in a range of industries and applications where a high degree of tool control, automation or data gathering is required. In addition to the input of torque data, the controller can simultaneously take data from other sensors, such as angle or pressure, and the various inputs analysed together. Examples of Norbar Tool Controllers are shown on page 110. In fact, these products are highly customised and will be engineered and programmed for our customers' specific requirements.

For more details please visit the Engineer to Order section of the Norbar website at: www.norbar.com/Services/Engineer-to-Order or contact your Norbar distributor to discuss your requirements.





TOOL CONTROLLERS

Tool Controller for 1 to 8 Simultaneous Spindle Options

Option for PneuTorque® manual or remote tools fitted with annular torque and angle transducer and solenoid operated valve assemblies

- Option for AC Servo remote tools fitted with or without annular torque & angle transducers
- 10" touchscreen HMI & PLC housed in a painted steel enclosure for indoor or workshop use
- Data entry fields for operation name, time, date and multiple torque limits & angle / turns limits
- Optional torque transducer ports for '.LOGA' or '.LOG' connection
- Single or twin solenoid ports for connection to PneuTorque® manual or remote tools
- One hand pendant input port
- Multiple step sequence programming to include torque & angle limits and individual joint fail checking
- One RS232 serial output
- One USB data output with optional USB powered barcode reader input
- Real time torque & angle streaming for all required spindle options
- Tool operation data capture and output in CSV format onto external USB drive, for the generation of customer test reports & graphs
- Remote observation mode via LAN port
- Emergency stop button

4	TRANSDUCER LEADS FOR TOOL CONTROLLERS
60308.400	PRO-LOG, TST, TTT, T-Box XL & T-Box 2 to Torque & Angle Annular Transducers
60308.600	PRO-LOG, TST, TTT, T-Box XL & T-Box 2 to Torque & Angle Annular Transducers
60308.1000	PRO-LOG, TST & TTT to Torque & Angle Annular Transducers

Tool Controller for Valve Testing - for Pneumatic Tools

Tool controller for PneuTorque® remote tools fitted with annular torque & angle transducer and solenoid operated valve assemblies.

- 10" touchscreen HMI & PLC housed in a painted steel enclosure for indoor / workshop use
- Data entry fields for test valve details, operator, time, date, torque limits & angle / turns limits
- Forward / reverse cycling to user programmable number of cycles, variable up to 32,000°
- One torque transducer port, for '.LOGA' or '.LOG' connection
- One twin solenoid port for connection to valve assembly
- One hand pendant input port
- Two proximity limit switch ports (for use where angle is not measured at the transducer)
- One customer pressure sensor port, (2mV/V), for data recording (not tool shut-off)
- One RS232 + one USB data output ports
- Real time torque & angle or torque & turns data streaming
- Test data capture and output in CSV format onto external USB drive, for the generation of customer test reports & graphs
- Emergency stop button and torque overload limit function

The models above are a sample of the controllers that Norbar produce. Please contact Norbar for your special requirements.

DIESEL ENGINE TYPE 1						PROGRAM SCREEN							
STEP	TORQUE MAX	TORQUE TARGET	ANGLE	SPEED RPM	MAX TIME	SPINDLE(S) ENABLE							
1	200	100	0	10	30	1 ON	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF
2	800	500	0	1	2	1 ON	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF
3	1200	1000	90	1	2	1 ON	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF
4	2500	2000	180	1	2	1 ON	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF
5	0	0	0	0	0	1 OFF	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 OFF	8 OFF
6	0	0	0	0	0	1 OFF	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 OFF	8 OFF
7	0	0	0	0	0	1 OFF	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 OFF	8 OFF
8	0	0	0	0	0	1 OFF	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 OFF	8 OFF
9	0	0	0	0	0	1 OFF	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 OFF	8 OFF
10	0	0	0	0	0	1 OFF	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 OFF	8 OFF

The Tool Controller shut-off system is supplied in a wall box for 'External Control' versions of the Norbar PTM series of tools. This can give a much greater range of functionality than is possible on the 'Internal Control' version of the tool.



Tool Controller with Hand Pendant from Valve Testing Controls Kit for use with AC servo drive or pneumatic drive tools

8	3 WAY SHUT-OFF VALVE
28943	3 Way Shut-off Valve 10 BAR Maximum Air Pressure
11	TWIN SOLENOID VALVE ASSEMBLY
60309	Twin Solenoid Valve Assembly for 108 Remote Tools
60310	Twin Solenoid Valve Assembly for 72 Remote Tools
60298.600*	Solenoid Lead for twin valve assembly, 6 m
60298.1000*	Solenoid Lead for twin valve assembly, 10 m
* For use with special tool controllers.	
11	TOOL CONTROLLER (TTT based)
60244	Shut-off system in wall box
Tool Controllers are supplied without leads.	
61127.600	Lead for PTM Series Tool
61126.600	Transducer Lead for PT Series Tool
61128.600	Solenoid Lead for PT Series Tool (for single valve)

Other lead lengths can be ordered at an additional cost. Both 61126.600 and 61128.600 are required to control a PT Series tool with a tool controller.