

Digital Multi-Channel Control System Series PCS8000

Expandable digital multi-channel measuring and control system for static and dynamic applications in material testing.

Multi-channel control expandable to unlimited control loops.

Up to 13 control- and measuring channels per control loop.

Control rate 8 kHz on each control loop.

High resolution digital multi-channel control system for closed loop control of any measuring channel (force, displacement, compression, temperature and other inputs).

Features:

- Highest Performance for test frequencies up to 150 Hz on each channel.
- Expandable to several control loops through combination of controllers.
- High system-reliability: Clearly structured system with few highly integrated and easily comprehensible hardware components.
- Modular design: each controller with up to 13 measuring and control channels and up to 10 free definable virtual (calculable) channels
- High data acquisition rate of 8 kHz.
- With 2 independent programmable and combinable set point value generators:
 - one for periodic functions
 - one for absolute ramps
- Synthesizer functions: rectangle, rectangle pulse, triangle, triangle pulse, sinus & saw tooth a.s.o.
- Menu-guided controller optimisation.
- Digital hand wheel for easy handling.
- Soft- and hardware surveillance.
- Real digital control.



Technical Data:

	Series PCS8000
No. of control loops:	expandable to any number (max. 200)
Test frequency:	up to 150 Hz
Control rate (Time):	8 kHz (0.125 ms)
Control modes:	all connected inputs (force, displacement, deformation a.s.o.)
No. of measuring channels:	up to 12 + 1 stroke channel onboard
Data acquisition frequency:	up to 8 kHz defined through user
Resolution of analogue inputs:	24 bit
Interfaces to PC:	Ethernet / LAN