ProController



The rugged ProController by PCME is an advanced display and control unit that provides power and central communications, and data acquisition and logging capabilities for PCME's dust, leak, and flow measurement sensors. Multiple communications interfaces and a range of inputs and outputs are available for parallel access to data and for linking PCME sensors into plant networks and data acquisition systems (SCADA/DCS).

Key Features:

- ✓ High-contrast, anti-glare 7" TFT LCD
- Rapid menu access and response via softkeys
- ✓ Multi-client Ethernet access
- Multilingual, icon-driven display
- ✓ Additional functionality provided by the PC-ME DUST TOOLS software suite
- Compatibility with PCME sensors and control units for seamless integration with existing installations

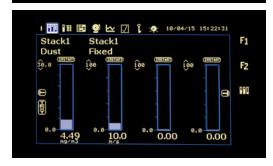


ADDED VALUE FEATURES AND BENEFITS

Feature	Benefit
ProController	DUST: Menu configured to identify Dust sensors automatically. Allows full menu compatibility. Enhanced sensor and system features to suit Dust monitoring applications. LEAK: The ProController is specifically tailored to increase the functionality of the sensors to support Enhanced Filter Performance capability.
High-speed Ethernet and Data Downloads	External, easy-access fast Ethernet and USB 2.0 ports for high-speed downloads without interruptions to online communications.
Multi-client Ethernet	Multi-client Ethernet communications for seamless integration into plant networks, providing simultaneous Ethernet access for up to five clients, which can be extended with a dedicated PC.
Multiple I/Os	Multiple data outputs: RS-485, Ethernet, USB, and Modbus (x2) for simultaneous data communication to plant DCS, Emissions Reporting Systems (DAHS), and Service Personnel.
Multilingual, intuitive Menus	Easy-to-use menu structure, available in a number of different languages, for navigating and updating sensor and system configuration options.
High-contrast colour Display	Clear emissions and alarm data displays on graphs, bar charts, and overview screens.
Data Logging	Data-logging capacity for recording historical emissions and alarm data. Convenient data downloads via USB.
Sensor Network Support	Fully compatible with all of PCME's sensors and network products, and capable of supporting up to 32 sensors for multistack and plant-wide monitoring.







ProController Specifications		
No. of Sensors/Channels	1–32	
Enclosure Dimensions	W 390 x H 221 x D 118 mm (15.4 x 8.7 x 4.6 in.)	
Enclosure Rating	IP66	
Enclosure Material	Die-cast aluminium (epoxy coated)	
Weight	5.7 kg (12.6 lb)	
Environmental Information	The equipment is for indoor or sheltered outdoor use; it is suitable for RH up to 95%, non-condensing.	
Ambient Temperature	-20°C to 50°C (-4°F to +122°F)	
Power Supply	85-265V AC, 50/60Hz	
Power Consumption	max. 40W	
Display	High-contrast, anti-glare 7" TFT (viewable) LCD	
Screen Resolution	800 x 480 pixels, WVGA	
Features	Navigation keys, plus five function keys (2x user-programmable, 1x return, and 2x short-cut keys) Power to sensor network Sensor and system setup, configuration options Secure password protection Data logging and reporting Sensor calibration screens Bar charts and graphs display LEDs for fault, alarm, and power indication Seamless integration with existing PCME control units and sensors	
Network Modules	Suitable for use with all PCME network modules.	
Cable Entries	8x M20 cable glands 1x Ethernet (RJ45) connector jack 1x USB 2.0, standard type A-to-A (female) connector jack	

Sensor Network Specifications			
2x RS-485	Modbus comms and power over RS-485 to PCME sensors and network modules		
	Comms to sensor network: • Modbus ASCII (default) or RTU • Baud rates: 9600, 19200, 38400, 56000, 57600, 115200		
	Power supply to sensor network: • Voltage output: 24V DC (±10%) • Current: max. 1A		
Data Logging	Capacity stated for one Long-term log (LT): Short-term log (ST): Pulse log: Alarms:		
Poll Rates	Once per second (for a 10-sensor network)		

Control N	Network Con	nections	
Ethernet (RJ45)	1x Modbus TCP (over Ethernet); external RJ45 connection jack with screw cap.		
	For connection to a plant PLC/DAHS or to other control units.		
	Data rate: 100 Mb/s		
	Connection type: 100Base-T/TX Max. number of simultaneous connections: 5		
	1x Modbus RTU (over USB 2.0), standard A-to-A type connection jack with screw cap.		
USB 2.0	Suitable for connecting to a local PC or laptop		
005 2.0	Current: 100 mA (one unit load) Voltage: 5V DC		
	1x RS-485	Modbus over RS-485 for connection to plant PLC/DAHS.	
		Modbus RTU (default) or ASCII Baud rates: 9600, 19200 (default) to 115200	
		User-programmable analogue outputs.	
		Range: 4mA to 20mA	
	4x 4-20mA	Accuracy: typically 1%, max. 4%	
		• Resolution: 0.01% (10 bit)	
		Load: max. 500 ΩOpen circuit voltage: max. 18V	
		Isolated (from system)	
0		User-programmable alarm relays, volt-free contacts SPCO.	
O U T P U T		1x mains (M) relay: Rated voltage: 250V AC Rated current: 3A Contact isolation voltage: 1 kV r.m.s Coil contact isolation voltage: 4 kV r.m.s	
S		3x low-voltage relays: AC OPERATION	
	4x Alarm	Rated voltage: 24V AC	
	4x Alarm relays	Maximum voltage: 48V AC	
		Rated current: 3A	
		Maximum current: 6A DC OPERATION	
		Rated voltage: 24V DC	
		Maximum voltage: 24V DC	
		Rated current: 3A	
		Maximum current: 5A ALL PELAYS	
		ALL RELAYS • Contact isolation voltage: 1 kV r m s	
		Contact isolation voltage: 1 kV r.m.s Coil/contact isolation voltage: 4 kV r.m.s	
ı	4x Digital inputs	Inputs for PLANT OFF indication, marker pulses for bag-cleaning sequences and multiple calibrations.	
N		Voltage input: max. 0.7V	
P		Current: max. 2.4mA	
U T S		Pulse duration: min. 0.1s	
		 Pulse hold: ≤ 5s 	
		Isolated (from system)	

Note: For more information on product specifications and options, please refer to the ProController Specification Guide (available on request from PCME or your local PCME representative).

ABOUT PCME LTD

As a progressive environmental Company, PCME specialises in particulate and flow measurement for industrial processes. With a worldwide reputation for reliability, innovation and technological excellence, the Company produces equipment for concentration and mass monitoring for regulatory, environmental and process control requirements. A dedicated team of qualified application and sales engineers is always on hand for consultation regarding the selection and usage of the most suitable equipment for any particulate monitoring application.









PCME Ltd

Clearview Building 60 Edison Road St IVES Cambs UK PE27 3GH Tel.: +44 (0)1480 468 200

Fax: +44 (0)1480 468 200 Fax: +44 (0)1480 463 400 Email: contact@pcme.com