

## WATCH™ temperature control system

*WATCH™ is a complete monitoring/control system for heaters. It consists of a series of heaters connected to a central unit. Each heater is equipped with a PID controlled module which is set by the central unit from an external computer. Our unique design together with the WATCH™ controlling mechanisms provide homogenous and reliable heating, with extremely low heat losses. The system is also adapted for clean rooms.*



- PID controller for each heater
- Adjustable temp and alarm setpoints
- Monitor and setup from PC
- RS232, Ethernet, Bluetooth or USB computer interface
- Low power consumption
- Easy installation
- Clean room compatible

WATCH™ is our distributed temperature control system. It measures each jacket's temperature through a thermocouple and controls all jackets individually. It is possible to connect up to 60 control points to each communication channel.

Very easy to install when you just plug the connectors on each jacket (Daisy chain). The temperature can be controlled with PID algorithms or on/off. All parameters are individually settable.

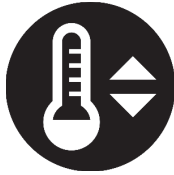
The system comes with software which displays the actual temperature and alarms. From the PC it's easy to add nodes and administrate the jackets. The gateway also has a relay closing or opening contact when there is an alarm.

Includes a control cabinet IP54 with main switch and a gateway for controlling the nodes as well as RCD a main switch.



### Technical information:

<b>Voltage:</b>	48-230VAC
<b>Power/node:</b>	Max 3A
<b>Power:</b>	700W/node
<b>Max current:</b>	3 x 16A
<b>RCD:</b>	30mA type A
<b>ICSU:</b>	IP20
<b>Size:</b>	75x60x40 mm
<b>Weight:</b>	110 g
<b>Communication:</b>	LED display, RS232



## WATCH™ temperature control system



### Watch software

The software accompanying WATCH runs on Windows. It allows change of individual temperature and alarm setpoints. Specific information of every heater jacket, such as power rating, is also available. All data is periodically updated and is presented according to user settings.

The central unit can be connected to a PC through an Ethernet network or directly using RS232. It is possible to connect more than one unit to one or more computers.

Serial	Line ID	Name	Low limit (C)	High limit (C)	Setpoint (C)	Temperature (C)	Difference	Power Bar	Power Rating (W)
806	101	DCM1-01	60	100	80	82	2	30%	92
799	111	DCM1-11	60	100	80	71	-9	100%	67
803	107	DCM1-07	60	100	80	86	6	0%	105
790	104	DCM1-04	60	100	80	79	-1	0%	135
805	105	DCM1-05	60	100	80	86	6	0%	107
802	109	DCM1-09	60	100	80	85	5	0%	44
837	110	DCM1-10	60	100	80	78	-2	41%	37
808	103	DCM1-03	60	100	80	87	7	0%	63
800	112	DCM1-12	60	100	80	78	-2	56%	36
801	106	DCM1-06	60	100	80	71	-9	91%	77
804	108	DCM1-08	60	100	80	75	-5	97%	110
807	102	DCM1-02	60	100	80	76	-4	54%	54
753	6	DCM4-06	60	100	80	90	10	0%	64
836	3	DCM4-03	60	100	80	86	6	0%	153
834	10	DCM4-10	60	100	80	75	-5	0%	67
751	2	DCM4-02	60	100	80	69	-11	100%	62
787	1	DCM4-01	60	100	80	73	-7	69%	90
786	8	DCM4-08	60	100	80	75	-5	79%	31
784	7	DCM4-07	60	100	80	78	-2	43%	22
833	9	DCM4-09	60	100	80	74	-6	100%	26

