Product Catalogue 2025
Electric Floor Heating

THERMOSTATS

Ideal Combination of Form and Function

OJ ELECTRONICS
BY BITZER GROUP

OJ Microline®

MWD5-Voice thermostat

New variant with voice control makes life even more comfortable and convenient for users.

MWD5-Voice

Type - MWD5-1999-OJC3

- Remote access
- Control via user-friendly app
- Simple setup - installation wizard
- No gateway required
- **Voice control**

works with Google Home

Compatible with **Amazon Alexa**

MWD5-WiFI

Type - MWD5-1999-P3

- Remote access
- Control via user-friendly app
- Simple setup - installation wizard
- No gateway required

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WiFi Controlled Thermostats

Remote control of the OJ Microline® OWD5 via a user-friendly smartphone app offers the ultimate convenience in temperature control. With a contemporary design, unsurpassed flexibility and renowned quality, you are offered a state-of-the-art thermostat with the OJ Microline® OWD5 WiFi for both new installations and for upgrading existing systems.

Unsurpassed User-friendliness and design

The leading OJ Microline® WiFi thermostat is developed to provide an experience second to none for both installers and end users. The integrated guidance ensures trouble-free configuration and daily use. Also, installation and first-time power-up are very easy through a carefully thought out mechanical design.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	MWD5-1999-P3	2" Touch thermostat with WiFi control, built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502906591
	MWD5-1999-R1P3	2" Touch thermostat with WiFi control, built-in sensor and 3m floor sensor • Labeled neutral • Pure white colour, 16A, IP21	5703502906621
	MWD5-1999-R1C3	2" Touch thermostat with WiFi control, Voice Assistent, built-in sensor and 3m floor sensor • Labeled neutral • Pure white colour, 16A, IP21	5703502911069
	MWD5-1999-OJC3	2" Touch thermostat with WiFi control, Voice Assistent, built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502910529
	MWD5-1999-UAP3	2" Touch thermostat with WiFi control, built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502907390
	MWD5-1999-R3P3	2" Touch thermostat with WiFi control, built-in sensor and 3m floor sensor • Labeled neutral • Pure white colour, 16A, IP21	5703502908083
	MWD5-1999-R3C3	2" Touch thermostat with WiFi control, Voice Assistent, built-in sensor and 3m floor sensor • Labeled neutral • Pure white colour, 16A, IP21	5703502911212
	MWD5-1999-UAC3	2" Touch thermostat with WiFi control, Voice Assistent, built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502910826
	OWD5-1999-P1	2" Touch thermostat with WiFi control, built-in sensor and 3m floor sensor • Labeled OJ Microline® • Creamy white colour, 16A, IP21	5703502906607
	OWD5-1999-P3	2" Touch thermostat with WiFi control, built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502906614

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Touch Thermostats

Having a high-quality control system is important for all floor heating solutions. The OJ Microline® Touch thermostats offer smart control in every word: the touchscreen gives users an attractive, intuitive interface, while installers get thermostats that are easy to install and require no service. As a system integrator, you get technology that matches perfectly the rest of your solution – and won't let you down.

KNOW HOW CREATES

Cutting-edge technology with minimum fuss

The innovative OJ Microline® Touch thermostats are constructed to the high-quality standards you expect from OJ Electronics. System integrators and installers get an adaptable and easy-to-apply solution that matches all their professional and technical needs: full compatibility, minimal field returns and happy end-users.

	Product type	Product features / Technical data	EAN-number
	MCD5-1999-P3	2" Colour Touch thermostat with built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502902456
	MCD5-1999-R1P3	2" Colour Touch thermostat with built-in sensor and 3m floor sensor • Labeled neutral • Pure white colour, 16A, IP21	5703502907529
	MCD5-1999-UAP3	2" Colour Touch thermostat with built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502902463
	MCD5-1999-R3P3	2" Colour Touch thermostat with built-in sensor and 3m floor sensor • Labeled neutral • Pure white colour, 16A, IP21	5703502910185
	OCD5-1999-P1	2" Colour Touch thermostat with built-in sensor and 3m floor sensor • Labeled OJ Microline® • Creamy white colour, 16A, IP21	5703502901183
	OCD5-1999-P3	2" Colour Touch thermostat with built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502902449
	OCD6-1999-P3	3.5" Colour Touch Thermostat with built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502901220

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Premium Clock Thermostats

Our premium range of programmable clock thermostats gives you very easy thermostats to programme, while end-users get energy savings and optimum comfort. This combination of comfort and energy savings is an excellent match for systems with a green/environmentally friendly brand position – and the OJ Microline clock thermostats will match even the strictest quality demands.

6-event settings

Installing and operating our clock thermostats is very easy. A 6-event programme helps make the thermostat even more energy-efficient, while the wheel-based animated navigation menu is intuitive for everyone.

Pre-set schedule saves installation time

The thermostat has a pre-programmed event schedule for easy and economical heating control. The program fits most end-users, so installers won't need to set up schedules from scratch every time.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	OCD4-1999	Clock thermostat with built-in room sensor and floor limit sensor • Labeled OJ Microline® • Creamy white colour, 16A, IP21	5703502622415
	MCD4-1999-E6	Clock thermostat with built-in sensor and 3m floor sensor • Labeled OJ Microline® • Pure white colour, 16A, IP21	5703502905068

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Basic Thermostats

Our simple floor-heating thermostats are ideal wherever you want basic temperature management – combined with an exceptionally high level of quality that ensures perfectly reliable operation for years and years. These simple comfort thermostats offer features such as a built-in 2-pole interrupter, night setback and max./min. temperature limitation to protect wooden floors against damage.

Fits many frames

Our basic thermostats can be mounted in many different types of frames and light switches, which makes system integration straightforward. They come complete with a floor sensor. Thanks to their IP21 enclosure rating, they are suitable for wet-room installation, too. And their simple, Scandinavian design makes them easy to fit into any interior.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	MCD3-1999-OJE6	Programmable thermostat with backlit display, floor sensor, built-in room sensor, adjustable week schedule and external control input • Labeled OJ Microline® • Pure white colour • ECO design directive compliant • 16A, IP21 • With ELKO frame	5703502909837
	MCD3-1999-R1E6	Programmable thermostat with backlit display, floor sensor, built-in room sensor, adjustable week schedule and external control input • Labeled neutral • Pure white colour • ECO design directive compliant • 16A, IP21 • With ELKO frame	5703502910468
	MCD3-1999-UAE6	Programmable thermostat with backlit display, floor sensor, built-in room sensor, adjustable week schedule and external control input • Labeled OJ Microline® • Pure white colour • ECO design directive compliant • 16A, IP21	5703502909851

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Simple On/Off Thermostats

For some systems – and some customers – what you really want are simple ON/OFF thermostats. These ON/OFF thermostats have proven their worth for years, giving reliable service to those who want the most straightforward kind of control. Here, users know exactly what they get at all times: they simply set the desired temperature on the knob – and, depending on the model chosen, switch the heat on or off on the switch. Pure simplicity that many still appreciate.

Fits many frames

Our simple ON/OFF thermostats can be mounted in many different types of frames and light switches, making system integration straightforward.

Proven, trouble-free technology

Using well-tested, proven technology has obvious benefits for system designers: you will get very low field return rates with this basic on/off thermostat. And the solution makes immediate sense to installers and end-users alike.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	OTN-1991H11	Thermostat with setback mode 5˚C incl. 3m floor sensor • Labeled OJ Microline® • 14A, IP21	5703502612676
	MTU2-1991	Thermostat with setback mode 5°C incl. 3m floor sensor • Labeled OJ Microline® • 16A, IP20	5703502614670
	MTU2-1999	Thermostat with setback mode 5°C with internal room sensor • Labeled OJ Microline® • 16A, IP20	5703502614687
	MTC-1991UCH	Thermostat with 3m/10ft floor sensor • Labeled OJ Microline® • 16A, IP20	5703502611068
	MTC-1999UCH	Thermostat with built-in sensor • Labeled OJ Microline® • 16A, IP20	5703502611082

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DIN-Rail Thermostats

Our DIN-rail thermostats are universal thermostats that can be used in almost any situation: floor heating control, saunas, frost protection of pipes and cooling applications. These DIN-rail relays are solidly made and based on proven technology for years of trouble-free service. And, of course, they allow you to fit everything neatly onto DIN-rails in electrical enclosures, cabinets and so on.

All-in-one thermostat ETN4

Programmable DIN rail thermostat with display. It can handle two sensors. Excellent for heating, saunas, frost protection and more.

Simple thermostat ETV

Very simple DIN rail thermostat: just set the temperature at your chosen setpoint from 0 to 40 degrees.

Frost protection thermostat – ETI

The ETI is similar to the ETV, but this simple DIN rail thermostat also handles temperatures below 0 degrees Celsius. Ideal for frost protection of pipes, etc.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	ETV-1990	Thermostat for DIN-rail with Setback Mode • 16A	5703502520940
	ETV-1991	Thermostat for DIN-rail with Setback Mode and 3 m floor sensor • 16A	5703502520964
	ETV-1991-P	Thermostat for DIN-rail with Setback Mode 3m floor sensor / potential-free contacts • 16A	5703502650142
	ETV-1999	Thermostat for DIN-rail with Setback Mode and 3 m floor sensor incl. remote room sensor • 16A	5703502520971
	ETN4-1999	"All-in-one" Thermostat for DIN-rail Mounting, 3 m floor sensor • 16A	5703502650289
	ECD4-1991-OJR1	"All-in-one" Thermostat for DIN-Rail Mounting, 3m floor sensor • Programmable schedule/Internal Clock • "Pipe protection"-mode • Multiple Languages (Western Europe) • Clear text User interface • 16A	5703502911182

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Sensors

We offer a wide range of sensors for various purposes, including floor and room sensors for electrical floor heating and ground, gutter and outdoor temperature sensors for ice and snow melting.

KNOW HOW CREATES

Pick the wire type you need

Our sensors come in many different forms to suit different settings: stiff or flexible wires, flat wires, etc. This ensures that our clients can cater to many different applications and markets.

	Product type	Product features / Technical data	EAN-number
	ETF-144/99A	Floor sensor with stiff wire • NTC, 12kΩ / 25°C • 3m	5703866101069
	ETF-144/99A-10M	Floor sensor with stiff wire • NTC, 12kΩ / 25°C • 10m	5703502908793
	ETF-144/99B	Floor sensor with flexible wire • NTC, 12kΩ / 25°C • 3m	5703502500508
	ETF-144/99T	Thin floor sensor • NTC, 12kΩ / 25°C • 3m	5703502690490
	ETF-144/99T-10M	Thin floor sensor • NTC, 12kΩ / 25°C • 10m	5703502901763
	ETF-944/99-H	Remote room sensor • NTC, 12kΩ / 25°C	5703502500379
	MTC-VH2	Installation box for wall mounting • For thermostats with squared frames	5703502690100

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Accessories

We offer a wide range of covers and frames that can be fully integrated with our electric thermostats. That way, your clients can get exactly the look and feel they want for their thermostat interfaces. The accessories are available in many designs and colours.

Our frames fit all thermostat rear housings with the dimensions 55x55mm.

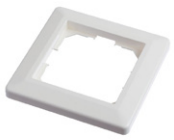
Square design

The square front covers from OJ Electronics fit all OJ thermostats in square design and can be combined with all square OJ frames as well as frames from other companies like Gira.

Round design

The ETI is similar to the ETV, but this simple DIN rail thermostat also handles temperatures below 0 degrees Celsius. Ideal for frost protection of pipes, etc.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	ACC-008	Square frame • Creamy white colour • 10 pcs.	5703502690698
	ACC-008-B5	Square frame • Aluminium colour • 10 pcs.	5703502690377
	ACC-008-D6	Square frame • Anthracite colour • 10 pcs	5703502690360
	ACC-008-E6	Square frame • Pure white colour • 10 pcs	5703502903255
	ACC-008-F4	Square frame • Matt black colour • 10 pcs	5703502910666

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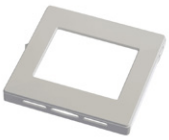
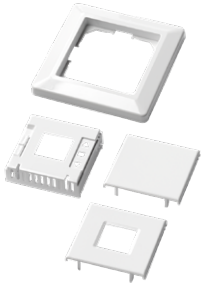
	Product type	Product features / Technical data	EAN-number
	ACC-008-R3F4	AUS/NZ backing plate and frame • Matt Black colour • 10 pcs.	5703502910819
	ACC-012	Square front cover for MCx • Front engraving with OJ logo • Creamy white colour • 10 pcs	5703502690483
	ACC-012-B5	Square front cover for MCx4 • Front engraving with OJ logo • Aluminium colour • 10 pcs	5703502690537
	ACC-012-D6	Square front cover for MCx4 • Front engraving with OJ logo • Anthracite colour • 10 pcs	5703502690544
	ACC-012-E6	Square front cover for MCx4 thermostats • Front engraving with OJ logo • Pure white colour • 10 pcs	5703502690728
	ACC-030-R1B5	Square front cover for MxD5 thermostats • Without logo on front cover • Aluminium colour • 10 pcs	5703502908533
	ACC-030-R1D6	Square front cover for MxD5 thermostats • Without logo on front cover • Anthracite colour • 10 pcs	5703502908540
	ACC-030-R1E6	Square front cover for MxD5 thermostats • Without logo on front cover • Pure white colour • 10 pcs	5703502908687
	ACC-030-R1	Square front cover for MxD5 thermostats • Without logo on front cover • Creamy white colour • 10 pcs	5703502908670
	ACC-030-R1F4	Square front cover for MxD5 thermostats • Without logo on front cover • Matt Black colour • 10 pcs	5703502910659
	ACC-031-R1B5	Colour kit for MCD3/MTD3 thermostats • Without logo on front • Contains front cover, front lid, front lid with window, square frame • Aluminium colour • 10 pcs.	5703502908571
	ACC-031-R1D6	Colour kit for MCD3/MTD3 thermostats • Without logo on front • Contains front cover, front lid, front lid with window, square frame • Anthracite colour • 10 pcs.	5703502908588
	ACC-031-R1	Colour kit for MCD3/MTD3 thermostats • Without logo on front • Contains front cover, front lid, front lid with window, square frame • Creamy white colour • 10 pcs.	5703502908564

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Services

To complement the extensive program of high-quality and technologic leading OJ Microline® thermostats, a wide range of services is offered.

Various options are offered to help you tailor the OJ Microline® thermostat to meet the specific requirements of your market strategy through branding and customization of the thermostats.

Additional a carefully designed service program is offered to meet market expectations on data security and operational reliability of cloud-connected thermostats. Due attention is paid to all aspects of the operational safeguarding end-users privacy when it comes to protecting personal data and securing operational reliability of any complex heat control solution built around an OJ Microline® thermostat. OJ Microline® is the obvious choice when it comes to integrating your electric floor heating into your SmartHome system.

KNOW HOW CREATES

	Service	Product features / Technical data	EAN-number	List price (USD)
	MWD5 REST API	License to use OJ REST API for integration to 3rd party connectivity systems	n.a.	On request
	MWD5 REST API RELEASE	MWD5 REST API REVIEW AND LIVE RELEASE • OAuth and Security • Admin UI • Variant Management • Test activities • Documentation • Live release	n.a.	On request
	MWD5 SERVICE	SERVICE LEVEL AGREEMENT Covering: OJ's Server System, App software and WEB software (xWD5) • Hosting • Maintenance • Monitoring • Reporting • Management • Optional Service	n.a.	On request
	PL-1101	PRIVATE LABELING STANDARD • Laserengraved logo and partnumber • White or OJ-standard print box with client logo • Neutral literature and user manual w.o. clients logo • Neutral QR WEB service	n.a.	On request
	PL-1102	PRIVATE LABELING STANDARD + • PL-1101 features + • Additional client logo on literature and user manual • Box sticker according to client's layout	n.a.	On request

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Winterline®

We have used our extensive experience with thermostats and sensors to develop a range of ice and snow melting systems that will keep pipes, driveways, roofs etc. safe during even the harshest winters.

Save energy with intelligent sensing

Our ice and snow melting system will set in only when the outdoor temperature drops below the selected setting, and the sensors actually detect snow or ice. This way your system only uses energy when it is needed.

Can handle two zones simultaneously

The system can handle two systems at the same time. For example, you can use them to ensure efficient melting in gutters and a park area at the same time. The system can be used both with electric and hydronic systems, giving all system designers maximum flexibility.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	ETO2-4550-EU28	System controller for two zones • 3x16A relays onboard • Can control multiple relays	5703502660233
	ETO2-4550-PL28	System controller for two zones • 3x16A relays onboard • Can control multiple relays • For Poland	5703502660349
	ETR2-1550	Controller for single zone application • 1x16A relay	5703502660141
	ETOP-4770	Controller for placement in harsh environment • Single zone with 3x30A realys	5703502906164
	ETOG-55-US224	Ground sensor for temperature and moist • 10m/33'	5703502660264

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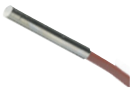
	Product type	Product features / Technical data	EAN-number
	ETOP-R	Remote control for ETOP	5703502906171
	ETOP-R-RB	Remote control for ETOP with box for on wall mounting	5703502906966
	ETOG-56	Ground sensor for temperature and moist • Supports tube mounting with ETOK • 25m/80'	5703502660356
	ETOR-55-US224	Gutter sensor for moist detection • 10m/33ft	5703502660271
	ETO2-BOX	Protection box for ETO2	5703502900315
	ETOK-1	Mounting kit for ETOG-56 • Sensor tube	5703502660363
	ETF-744/99	Outdoor sensor for detection of temperature (Ice & Snow melting application) • NTC, 12kΩ / 25°C	5703866101854
	ETF-522	Sensor NTC, 12kΩ / 25°C • Silicone • -40 - 120°C • 2.5m	5703866101601
	ETF-622	Surface mount sensor • NTC, 12kΩ / 25°C • -40/+120°C • 2.5m cable • 8x12mm, ø3,5mm hole	5703866101700
	ETF-1899A	Plant sensor • NTC, 12kΩ / 25°C • -20/+70°C • 2.5 m cable	5703866080357

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	Product type	Product features / Technical data	EAN-number
	ETR/F-1447A	Roof & gutter thermostat and external temperature sensor (ETF-744/99) • 16A, -15/+10°C, 230V	5703502650197
	ETR/F-1447P	Roof & gutter thermostat (potentialfree contact) and external temperature sensor (ETF-744/99) • 10A, -10/+10°C, 230V	5703502520810
	ETR/F-1441A	Gutter de-iceing thermostat with sensor (ETF-144/99-10M)	5703502650258
	ETR-1441-A	Gutter de-iceing thermostat	5703502650227
	ETI-1221	Industry Thermostat • Thermostat for 35mm din rail mounting • +10/+110°C, 230V, 10A	5703502532905
	ETI/F-1551	Thermostat with adjustable differential • -10/+50°C, 230V, 10A • With sensor (ETF-144/99A)	5703502532998
	ETI-1551	Industry Thermostat • Thermostat for 35 mm din rail mounting • +10/+50°C, 230V, 10A	5703502532875

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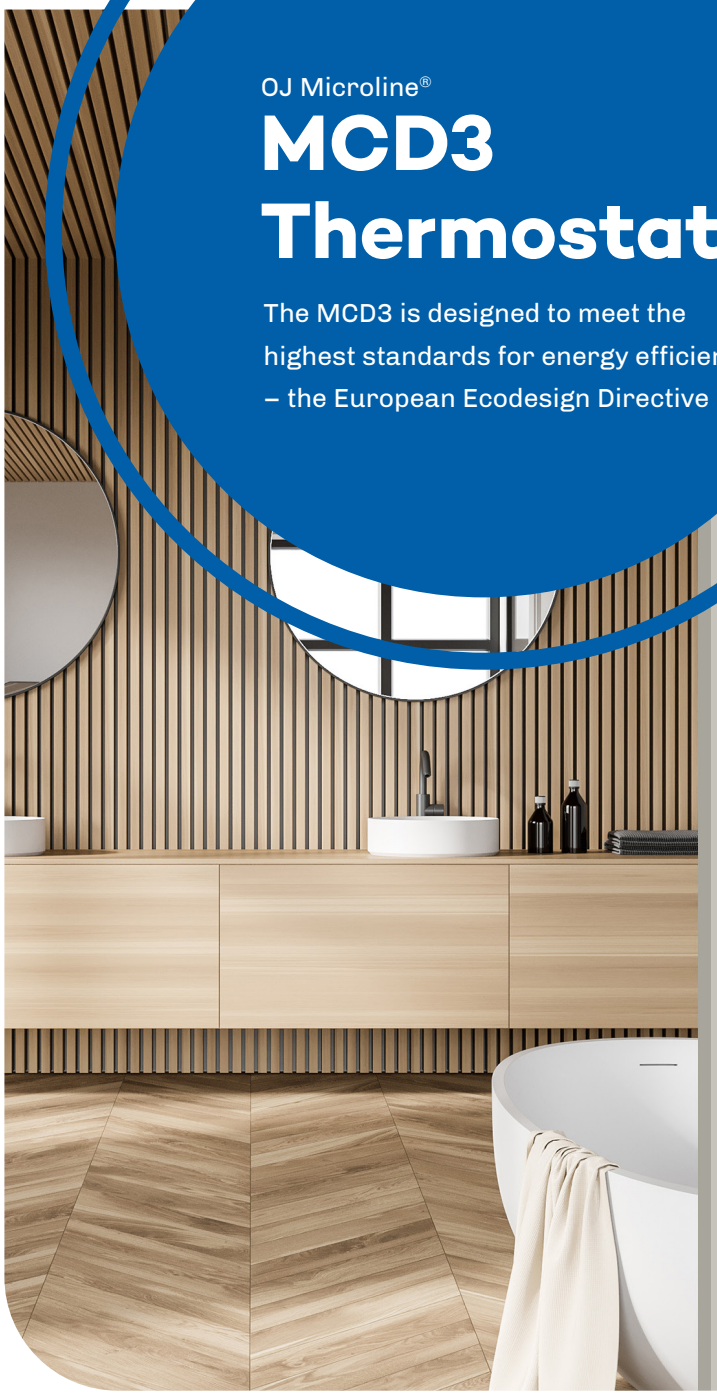
MCD3 Thermostat

The MCD3 is designed to meet the highest standards for energy efficiency – the European Ecodesign Directive



MCD3: Worry-Free Thermostat for Electric Underfloor Heating

The MCD3 is a full-featured digital thermostat designed to the highest standards for control of electric underfloor heating.

Meeting all requirements of the European Ecodesign Directive, the MCD3 helps lower the environmental impact by eliminating power wastage.

Its flexible features will ensure keeping the indoor temperature warm and comfortable regardless of different climates and individual needs.

The MCD3 benefits from the User-Centered Design approach of OJ Electronics. This grants you effortless handling during both installation and daily use.

- Highest rating according to the European Ecodesign Directive
- Possible to integrate with external control
- Contemporary design, compatible with standard wall sockets and available in several colours
- Intuitive userinterface for trouble-free programming and daily use
- Recommended for both tile and wooden floors

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About OJ Electronics

KNOW HOW CREATES

Founded in 1964 and headquartered in Sønderborg, Denmark, OJ Electronics produces electronic controls for underfloor heating and HVAC controls and drives. Our products are available through partners and distributors worldwide, and we have subsidiaries and sales offices in key markets, including the United States and Poland. Everywhere, we are known for our innovative approach, insistence on product quality, and deep application knowledge – all of which helps customers differentiate themselves in the market.

In June 2023, OJ Electronics was acquired by BITZER Electronics, a BITZER Group company also headquartered in Sønderborg. This makes OJ Electronics part of the BITZER Group family, which is represented at 75 locations in over 40 countries and employs some 4000 people worldwide.

OJ ELECTRONICS
BY BITZER GROUP

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