MICROFAN®

dynamic solutions

NEW BRAVO TOUCH

The new generation BRAVO TOUCH, equipped with a touch screen and remote connectivity (optional), can be perfectly applied to all types of ventilation and heating or cooling purposes in today's livestock industry. BRAVO TOUCH combines climate control with ease and simplicity.

BRAVO.CLOUD
Be Smart, Be Connected

- User friendly operation with our new capacitive clear touch screen

- Easy icon driven menu and functions

- Simple navigation

- Available in different fan output variants 6A / 10A / 0-10V

- Easy to install

- Optional remote connectivity via BRAVO.CLOUD

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BRAVO TOUCH

Microfan dynamic solutions

Located in The Netherlands, Microfan is at the heart of agricultural development, acting as the leading innovator in the field of environmental control and management systems for the livestock industry.

Since 1979 our family-owned business has created innovative products for farmers worldwide. We at Microfan continuously offer farm automation solutions for a dynamic industry.

All of Microfan's controllers are made with absolute care for optimal product reliability and undergo multiple quality control procedures before leaving our factory.

Together with the help of close partners located in over 40 countries, Microfan ensures product and service quality for all its users.

Microfan's ventilation designs, environmental control products and management systems guarantee a stable and healthy air quality, optimal production and increased animal well-being.

Our OEM family consists of over 60 brands worldwide. So even if you don't see Microfan on the controller, that doesn't mean we're not inside. For enquiries, finding a local dealership or just to say hi, please contact us via the information below.

Over 40 years of experience with creating ventilation and control systems for the agricultural industry!
Our developments are driven by three innovation pillars:

Connectivity
Be smart, get connected

Efficiency
Get the most out of your farm

Service
Ensures your profit

BRAVO TOUCH, as easy as 1-2-3!

1. Select

2. Adjust

3. Save

Direct remote access anywhere and anytime

Option: BRAVO.CLOUD provides you with information about the actual situation in your farm, wherever you are and no matter what time of day, via a PC, tablet or smartphone. By using the BRAVO.CLOUD web portal customized data files can be captured and stored in the cloud. This data enables you to export, compare and analyze production data from one or more rooms or farms. It gives you all the right process insights to improve your production.

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Capabilities

Ventilation
The BRAVO TOUCH offers the flexibility to work with different types of ventilation designs. It supports 0-10V or integrated TRIAC control for ventilation equipment with or without dampers and air inlet control.

Heating/Cooling
Set heating and/or cooling equipments such as gas heaters, cooling pads, floor heating/cooling systems or air conditioning equipment, not just before or after the fans run at minimum or maximum capacity, but whenever you please. Optimize settings over time for maximum production results at minimum energy costs!

Sensor Inputs

Temperature
Add temperature sensors in and around the house and the BRAVO TOUCH will continuously adjust control outputs to maintain steady temperature levels within free to set boundaries.

Relative Humidity
Connect humidity sensors to the BRAVO TOUCH so you can monitor and control in-house humidity. The BRAVO TOUCH will automatically adjust ventilation and/or heating equipment to prevent in-house moisture levels from rising above acceptable standards.

Ammonia
Adding an ammonia sensor helps the user to monitor the air quality inside the house. With ammonia control active, the BRAVO TOUCH automatically adjusts ventilation to ensure a healthy and non-toxic environment for the animals.

Carbon Dioxide
Highly recommended when using any type of gas heaters! The BRAVO TOUCH will automatically use the ventilation equipment available to get rid of this dangerous substance as soon as levels start rising above safety standards.

Measuring Fans
Install a measuring fan to accurately measure and control the live ventilation rates instead of blindly controlling according calculated values. These don't take into account any changing influences on the ventilation system in- and outside the building, or the fans' performance throughout its lifetime. With a measuring fan, the BRAVO TOUCH will continuously adjust ventilation rates according to the exact m^3/h needed. Save energy by ventilating exactly as much as is needed.
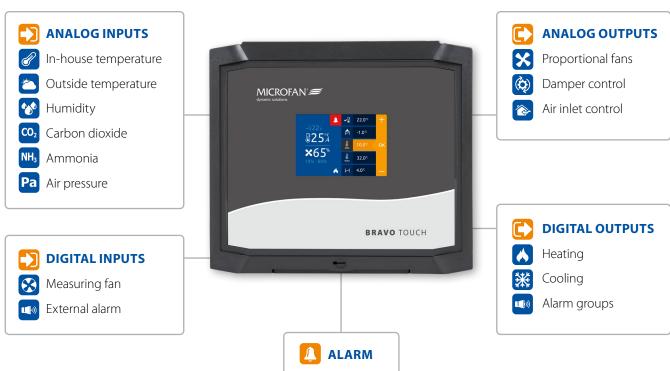
Air Pressure
Adding an air pressure sensor will allow the BRAVO TOUCH to calculate the optimal air flow and ventilation rates at the animal level.

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ANALOG INPUTS
- In-house temperature
- Outside temperature
- Humidity
- CO_2 Carbon dioxide
- NH_3 Ammonia
- Pa Air pressure

DIGITAL INPUTS
- Measuring fan
- External alarm

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BRAVO TOUCH

ANALOG OUTPUTS
- Proportional fans
- Damper control
- Air inlet control

DIGITAL OUTPUTS
- Heating
- Cooling
- Alarm groups

ALARM

TECHNICAL SPECIFICATIONS	BRAVO TOUCH-6	BRAVO TOUCH-10	BRAVO TOUCH-K	BRAVO TOUCH-SL
Analog inputs	3	3	3	3
Analog outputs (0-10V)	2	2	2	3
Digital inputs	2	2	2	2
Digital outputs (relay)	2	2	2	2
Alarm relay	1	1	1	1
TRIAC output	6 amp. fan control	10 amp. fan control	5 amp. valve control	None
Power supply (in)	110Vac – 240Vac 50/60Hz			
Power supply (out)	24Vdc / 12Vdc			
Housing	228x118x203mm / IP54			
Operating temperature	0°C - 45°C			

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COMING SOON

BRAVO.CLOUD
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BRAVO.CLOUD provides users with 100% live data and information about the farm, simply connect the BRAVO TOUCH to a router and you can access the controller via the BRAVO.CLOUD smartphone app. Even grant temporary access to a Microfan technician in order to offer help or control settings remotely in the event of any questions!

- Well-organized view of your sites, houses and farm control systems

- View alarms online and real-time

- Available for every tablet and smartphone

- Data capturing in the cloud

- Always assured of a backup with the last settings

- Remote and quick support by your installer

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