

EX II 1000SC Serial Capacitive Controller Series

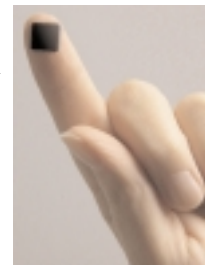


Product Highlights

- Firmware download capability
- Wide operating temperature, -40 degrees C to +70 degree C
- High positional touch coordinates, 16k x 16k
- Fully backward compatible

A Sophisticated Electronics Solution

The new MicroTouch EX II ASIC provides the foundation for a new electronics platform that is flexible in design, feature rich in functionality and innovative in nature. The highly complex, integrated circuitry of EX II provides the advanced capability with the quality and reliability expected from 3M.



Making the Difference

Based on the EX II ASIC, the EX II 1000 SC series of controllers takes advantage of the power of this chip while remaining fully backward compatible, making it simple and easy for existing customers to adopt EX II technology. With a wider operating temperature range, on-chip RAM, higher touch coordinates, expanded regulatory approvals, and improved ESD and EMI, this controller is a robust solution for popular touch applications.

By integrating EX II 1000SC into your touch solution, you'll gain the ability to download firmware from the resident host PC to the controller at the time of start-up, floppy or CD-ROM. This allows access to the latest 3M Touch Systems firmware features - even to systems already deployed in the field.

These controllers are RS 232 serial and available in pearl, black, or uncased versions.

Technical Data

EX II 1000SC Serial Capacitive Controller

PRODUCT INFORMATION

Sensor Connection	12-pin NOVRAM
Physical Dimensions	3.75 in. x 2.50 in. x 0.90 in. 95.3 mm x 63.5 mm x 22.9 mm

PRODUCT TECHNICAL DATA

Mean Time Between Failure (MTBF)	> 740,000 hours
Storage Temperature Range	-50 deg. C to +85 deg. C (at up to 20% RH)
Operating Temperature Range	-40 deg. C to +70 deg. C @ up to 20% RH (max temp. ramp -0.5 deg. C/min)
Operating Temperature/Humidity	+36 deg. C @ 95% RH
Power Requirements	12Vdc +/- 10%, 100 mA 5Vdc +/- 10%, 100 mA
Minimum Touch Duration	3 milliseconds.
Touch Resolutions*	16k x 16k
Communications Protocol	Serial RS 232
Power Connection	12V orange wire or 5V through RS-232 cable
Electro Static Discharge (ESD Susceptibility)	27 Kv Air, 8 Kv Contact
Electro Magnetic Immunity (EMI)	IEC 801-2, 3, 4 Compliant
Host Cable	8 feet (2.5 m) long
Regulatory Compliance	UL/cUL, FCC Class B / CISPR22 Class B, CE, VCCI Class B ITE Emissions (Japan), AS/NZS 3548:1995/CISPR 22 Class B ITE Emissions (Aus.)

PRODUCT OPTIONS

Options	Uncased Available (without cable) Black case available
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* The maximum number of addressable coordinates generated by the controller

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