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Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / EUROTHERM / CHESSELL

Schneider Electric / Eurotherm / Chessell 5100V 12-Channel Graphic DAQ Recorder

Eurotherm Chessell 5100V Graphic Data Acquisition Recorder The Eurotherm Chessell 5100V is a 144 × 144 mm panel graphic recorder with a 5.5 inch colour TFT, 320 × 240 (1/4 VGA) analog resistive touchscreen. Universal input boards are six channels each. The July 2000 specification sheet lists one board (6 channels) maximum; later Chessell catalogs list two boards (12 channels) and up to six relays. Inputs mix dc V/mV/mA, thermocouple, 2/3-wire RTD, and contact closure. Scan and archive rate 125 ms. Archive to 3.5 inch floppy or PC Card. Ethernet 10BaseT TCP/IP with FTP. Supply 85 to 265 V, 47 to 63 Hz, 60 VA max. The Eurotherm Chessell 5100V is a 144 × 144 mm panel graphic recorder with a 5.5 inch colour TFT, 320 × 240 (1/4 VGA) analog resistive touchscreen. Universal input boards are six channels each. The July 2000 specification sheet lists one board (6 channels) maximum; later Chessell catalogs list two boards (12 channels) and up to six relays. Inputs mix dc V/mV/mA, thermocouple, 2/3-wire RTD, and contact closure. Scan and archive rate 125 ms. Archive to 3.5 inch floppy or PC Card. Ethernet 10BaseT TCP/IP with FTP. Supply 85 to 265 V, 47 to 63 Hz, 60 VA max. Batch and continuous process viewing; 6 or 12 universal analog channels; thermocouple/RTD/mA plant recording; Ethernet/FTP historical files; panel replacement of Chessell 100 mm-class graphic DAQ.

**MODEL****Schneider Electric
/ Eurotherm /
Chessell 5100V****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****5100V****LISTING****[https://aumictechlabs.c
om/products/5100v-2/](https://aumictechlabs.com/products/5100v-2/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schneider Electric / Eurotherm / Chessell 5100V is a 12-channel graphic data acquisition recorder designed for industrial process monitoring and historical trend analysis. It combines real-time measurement visualization with internal memory-based data logging, capture and retrieve process variables across configurable input types. The unit delivers high-precision measurement accuracy suitable for critical applications, with an intuitive front-panel interface and graphic display for both live monitoring and archived data review.

Technical Specifications

Product Type: Graphic Data Acquisition Recorder

Channels: 12

Display: High-resolution graphic display for real-time visualization and historical trend display

Input Configuration: Configurable for multiple industrial sensor types including voltage, current, thermocouple, RTD, and resistance inputs. Input impedance and accuracy specifications vary by installed module.

Data Storage: Internal memory for data logging with configurable logging intervals

User Interface: Front-panel controls and menus for configuration and operation

Operating Environment: Industrial-grade construction rated for harsh operating conditions. Specific operating temperature range and ingress protection specifications depend on mounting configuration.

Power Supply: Requires specific voltage and frequency range per product manual

Communication & Integration: Supports serial and Ethernet ports for data transfer, remote monitoring, and configuration. Digital inputs for event triggering and digital outputs for alarms or control functions available. Modbus protocol support potential.

Key Features

- 12-channel simultaneous data acquisition
- Modular input architecture for mixed sensor types
- Graphic trending and historical data display
- Internal memory-based logging with configurable intervals
- Industrial panel-mount form factor
- Dual communication interface capability
- Digital I/O for alarm integration and event triggering

Typical Applications

- Process validation and batch record generation
- Environmental chamber monitoring
- Multi-sensor industrial process control
- Historical data archival and trend analysis
- Critical system parameter logging

Compatibility & Integration

The 5100V integrates with industrial automation networks via Ethernet and serial connectivity. Data export capabilities enable integration with SCADA systems and production databases. Module-based input design supports mixed sensor inputs within a single unit.

Features & description

From manufacturer datasheet

Features

- 5.5 inch colour TFT touch, 320 × 240; IP65 bezel
- Six-channel universal input boards; 5100V later 12-channel (two boards)
- 125 ms sample and archive to internal flash / disk / PC Card
- Relays: three change-over per board; 5100V two boards (six outputs) max
- Ethernet 10 Mbit/s 10BaseT, TCP/IP, FTP
- 85-265 V, 60 VA; inrush 36 A; 3 kg; 248 mm behind bezel

5100V Characteristics / Specifications

PARAMETER	VALUE
Model	5100V
Manufacturer	Eurotherm Chessell
Instrument Type	Graphic Data Acquisition Recorder
Series	5100V / 5180V
Alias	5100V; K5100V; Chessell 5100V
Bezel Size	144 × 144 mm DIN 43700
Panel Cutout	138 × 138 mm (-0 / +1 mm)
Depth Behind Bezel	248 mm
Weight	3 kg
Display	colour TFT LCD, cold-cathode backlight, analog resistive toughened touch
Display Resolution	1/4 VGA 320 × 240 pixels
Display Size	5.5 inch (139.7 mm)
Input Boards	six-channel universal
Max Boards Original Sheet	one board, 6 channels (HP261809/2 July 2000)
Max Boards Later Catalog	two boards, 12 channels
Relay Boards	three change-over relays per board
Max Relay Boards 5100V	two boards, six outputs
Archive Media	3.5 inch floppy or PC Card (ATA flash or hard disk)
Line Voltage	85 to 265 V, 47 to 63 Hz
Power Maximum	60 VA
Inrush Current	36 A
Fuse Type	none (specification sheet)
Ethernet	10 Mbit/s 10BaseT, TCP/IP, FTP
Operating Temperature PC Card	0 to 50 C
Operating Temperature Floppy	5 to 40 C

PARAMETER	VALUE
Storage Temperature PC Card	-25 to 70 C
Storage Temperature Floppy	-20 to +50 C
Humidity PC Card Operation	8 to 85 percent RH noncondensing
Humidity Floppy Operation	20 to 80 percent RH noncondensing
Protection Bezel	IP65
Vibration	2 g peak, 10 to 150 Hz
Altitude	less than 2000 m
Safety	BS EN61010 installation category II, pollution degree 2
Sample Rate	125 ms each input with full channel complement
Archive Rate	125 ms max to internal flash / disk / PC Card
Input Types	dc volts, dc millivolts, dc milliamps with shunt, thermocouple, 2/3-wire RTD, contact closure greater than 60 ms (not channel 1)
Common Mode Rejection	greater than 140 dB channel-to-channel and channel-to-ground (48-62 Hz)
Series Mode Rejection	greater than 60 dB
Maximum Common Mode Voltage	250 V continuous
Isolation Channel To Channel	300 V RMS or dc double insulation
Dielectric Channel To Channel	2300 Vac 1 minute
Dielectric Channel To Ground	1350 Vac
Insulation Resistance	greater than 10 MOhm at 500 V dc
DC Ranges	38 mV, 150 mV, 1 V, 10 V
DC Resolution 38 mV	1.4 uV
DC Max Error 38 mV	0.085 percent input + 0.073 percent range at 20 C
Input Impedance Low Ranges	greater than 10 MOhm (38 mV, 150 mV, 1 V)
Input Impedance 10 V	68.8 kOhm
Overvoltage Protection	50 V peak (150 V with attenuator)
Open Circuit Detection	+/-57 nA max; recognition 500 ms; break at least 10 MOhm
RTD Resistance Ranges	0 to 150 ohm, 0 to 600 ohm, 0 to 6 kOhm

PARAMETER	VALUE
Pt100 Range	-200 to +850 C IEC 751; max linearisation error 0.01 C
Thermocouple Scale	ITS 90; CJ error 1 C max at 25 C instrument; CJ rejection 50:1 min
TypeKRange	-270 to +1372 C IEC 584.1
TypeJRange	-210 to +1200 C IEC 584.1
Relay Max Switching	500 VA or 60 W resistive
Relay Max Current	2 A within power rating
Relay Max Voltage	250 V within power rating
Relay Life Resistive	30 million operations estimated
Mounting Angle Floppy	+/-15 degrees; hard disk vertical only Notes Specs from Eurotherm Chessell 5100V/5180V specification sheet HP261809/2 (July 2000) and later Chessell catalogs that list 12 inputs / six relays. Confirm installed input-board count (6 versus 12), archive drive (floppy versus PC Card versus HDD), and supply on the rear label.
Relays	three change-over per board; 5100V two boards (six outputs) max
Storage temperature	PC Card: -25 to 70 C
Operating temperature	PC Card: 0 to 50 C
Humidity	PC Card Operation: 8 to 85 percent RH noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	PC Card: -25 to 70 C
Operating temperature	PC Card: 0 to 50 C
Operating Temperature	PC Card: 0 to 50 C
Humidity	PC Card Operation: 8 to 85 percent RH noncondensing
Operating Temperature PC Card	0 to 50 C
Operating Temperature Floppy	5 to 40 C
Storage Temperature PC Card	-25 to 70 C
Storage Temperature Floppy	-20 to +50 C
Humidity PC Card Operation	8 to 85 percent RH noncondensing
Humidity Floppy Operation	20 to 80 percent RH noncondensing
Protection Bezel	IP65
Vibration	2 g peak, 10 to 150 Hz
Altitude	less than 2000 m
Safety	BS EN61010 installation category II, pollution degree 2
Sample Rate	125 ms each input with full channel complement
Archive Rate	125 ms max to internal flash / disk / PC Card
Input Types	dc volts, dc millivolts, dc milliamps with shunt, thermocouple, 2/3-wire RTD, contact closure greater than 60 ms (not channel 1)
Common Mode Rejection	greater than 140 dB channel-to-channel and channel-to-ground (48-62 Hz)
Series Mode Rejection	greater than 60 dB
Maximum Common Mode Voltage	250 V continuous
Isolation Channel To Channel	300 V RMS or dc double insulation
Dielectric Channel To Channel	2300 Vac 1 minute
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Insulation Resistance	greater than 10 MOhm at 500 V dc

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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Mounting Angle Floppy	+/-15 degrees; hard disk vertical only

Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.