

# Storm Controls QUATTRO

## Vehicle Recorder with Printer, Display & User Setting Facility

### Product Brief :

Simple print Option for  
Vehicles : Delivery Ticket, Journey Ticket  
and Print-all Ticket format

Stand-alone solution to food regulation compliance at  
low cost.

Robust Cost Effective & Reliable

Small 185 x 95 x 60 mm

Light Weight 860 grams.

Robust Metal construction

Simple to install and wire

1-4 Temperature sensor inputs and 2 event inputs

Rugged construction and vibration tested to  
meet EN12830.

For in-cab use.

Manufacturer's 2 years warranty.

Full EMC compliance for emissions and  
perturbations

RS232 output for data download to Ramlog or PC

16 Digit x 2 line Super-twist LCD Display

### ON BOARD SETTING KEYS FOR:

- Time & Date
- Client Name
- Vehicle Registration
- Recording Intervals
- Full Alarm setting facility
- Print back from facility



### RECORDER WITH PRINTER, DISPLAY and user setting facility



### Check out the versatile Quattro Recorder from Storm Controls

The **Quattro** Recorder increases the versatility of the standard Printman 2 unit by providing a smaller and slimmer version of the family, designed to fit to the bulkhead of small vans and rigid and fitted with an LCD Display.

The **Quattro** comes complete with a 24 column Printer, a 2 x16 super-twist LCD Display and the ability for the Client to set user parameters from the front key pad. Settings for : Date and Time, Client Name, Vehicle Registration, Recording Intervals and full alarm setting facilities can be set using the front panel user keys.

The **Quattro** recorder furnishes vehicles with a cost effective, stand alone, solution towards meeting the stringent requirements of the latest EEC food regulations.

The **Quattro** provides for 1-4 temperature inputs. 1 door switch and 1 defrost to be monitored. The unit prints out the temperature and event conditions on demand in either: Delivery ticket, Journey ticket or Print All format, thereby providing the necessary evidence of the condition of the perishables within the cold compartment with time.

Independent print select buttons allow the unit to print out the real time condition of each sensor in the above formats whilst the display allows real time interrogation of the pertinent temperature parameters.

As with all Storm products the **Quattro** comes complete with a full 2 year factory warranty and at a very competitive price.

QUATTRO Recorders with Printer & Display

**Printer & Display Recorders**  
**Metal Enclosure**  
**QUATTRO**

Technical Specification

MEETS  
EN12830 STANDARDS

**Input Voltage:** 9 to 32 volts dc.

**Sensor Channels:** 1 to 4  
**Event Channels:** 1 Door & 1 Defrost.

**Electrical safety:**

NF C 42-010 & EN61010-1

**Electrical Perturbations:**

NF C 46-023 & EN50081-1 & EN50082-1

**Battery Back up:**

**Operating:**

Data in memory: Indefinitely

Clock: Indefinitely

**Stand-by:**

Data in memory: Indefinitely

Clock: 8 years min.

**Temperature measurement range:**

-40 to +40 Degrees Celsius. Range 80 Celsius

**Sensor response time:**

Less than 10 min at air flow of 1 metre/sec.

**Resolution:** **Class 1** 0.1 Degrees Celsius.

**Accuracy:** **Class 1** +/- 0.5 Degrees Celsius.

**Storage Intervals:** 1 to 60 minutes User Adjustable

**Clock Time Error:** Less than +/- 0.05 %

**User Settings:** The 3 printer control keys also allow the Quattro to provide a user friendly menu facility that provides on board setting of user functions such as : Date & Time, Client Name, Vehicle Registration, Recording interval and Full Alarm setting facility.

**Printing/Setting Keys:** 3 off

**Display:** 2 x 16 Super twist with backlight

**Recorder Environmental Specification**

**Temperature:**

Operating : **Unit** -30 to +65 Celsius

Storage : **Unit** -40 to +85 Celsius

**Humidity:**

Operating: 5 to 80% non-condensing.

Non Operating: 5 to 90% non-condensing.

**Enclosure protection:** IP20

**Printer Unit & Environmental Specifications**

**Printer:** 24 column Impact.

**Print Speed:** 1 line per second

**Paper Roll Length:** 15 metres

**Paper Roll Life :** 6 months @ 1 hour intervals.

**Temperature:**

Operating : **Printer** 0 to +50 Celsius

Storage : **Printer** -30 to +65 Celsius

**Note:** For printer operation below -10 Celsius fit a heater kit.

**Humidity:**

Operating: 5 to 80% non-condensing.

Non Operating: 5 to 90% non-condensing.

**Shock Tests:** EN 60068-2-27

**Vibration Tests:**

Frequency: 5 HZ to 150 HZ

Frequency Steps: 8.6 Hz.

Amplitude: 10 mm

Acceleration: 29.4 m/s/s =3g

**Data Storage Capacity:**

1-4 sensors fitted 170 days .

At 30 minute storage intervals

**Physical Dimensions**

Width: 95 mm

Height: 185 mm

Depth: 60 mm

Weight: 860 grams

Fittings: 4 screw fixing

Colour: Beige

Enclosure material: Powder coated Steel

**Data Interface:**

RS232 9 Pin D connector 9600 baud

**ICE Interference Immunity Conformance**

Radiated Emissions EN55022 (1987) Class B

Electrostatic Discharge EN 6000-4-2.

Radiated Immunity EN 6000-4-3

Fast Transient Bursts EN 6000-4-4.

**Calibration:** Self Calibrating

**Quality Standards:**

Design & Manufacture BS EN 9001:2000

**Accessories**

**Standard Sensors:**

Stainless steel bullet, cable sizes as required.

**Down load & interrogation Software:**

**Cdata :** [Data Download & Interrogation](#)

Windows 95, 98 XP and NT compatible.

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