

Temperature Chart Recorder

Stock Reference: 40007

Are failures in old investments costing you money?

Stork's temperature chart recorders are renowned for accuracy and reliability. This can often eliminate expensive re-work, caused by the failure of older, unreliable, mechanical recorders. The reduced mechanical parts, input open-circuit alarms, date/time printing, and the clarity of the six colour microjet printing system ensure that all interested parties have full confidence in the accuracy and authenticity of recorded data.

Stork equipment is manufactured incorporating ISO 9001:2000 quality controlled designs. These designs are based upon the results of third party testing for compliance with European Safety Directives and Stork's extensive experience in the field of heat treatment engineering.



Description

The temperature chart recorder which Stork offer can record a maximum of 12 input channels from any thermocouple type. The unit can be set to meet your precise requirements prior to despatch and, if required, the operator is also able to change any parameter.

The recorder incorporates ink jet technology, which provides twelve continuous traces on a 180 mm chart. This allows the measured data to be recorded in analogue trace mode or digital data mode enabling data logs to be printed at operator-selected intervals at high speed. Information and data is also constantly available in an LED alphanumeric display.

Features

- Compact size
- High quality, colour recording
- Password security
- Ability to zoom in to a selected area of the graph
- Traces can be zoned allowing simultaneous recording of separate charts
- Analogue or digital printing
- Periodic information printing (date, time, scale, temperature logs)
- Customised labels can be attached to each trace and chart
- Alarms printed on chart as they occur
- Option to print data measured as maximum, minimum, average and totals

- Low ink warning
- Option for warning when chart paper is running low
- Mathematical calculation of data including subtraction and engineering unit conversion
- Communications transmission function: RS-485 (optional extra)

Versatility

- Can be used for analogue, graphical recording or as a data logger
- Accepts 12 thermocouple types (K, B, R, S, E, J, T, N, W, L, U, PN)

Ease of operation and maintenance

- Simple to operate, maintain and calibrate
- 66% less mechanical parts than conventional recorders
- 33% less parts in total than conventional recorders
- Does not use complicated servomechanism
- Each input has its own circuit
- Unlike conventional recorders, input scanning is not used ensuring trouble free operation

Fitness for purpose

- Accurate
- Robust construction
- Up to six-month operation with one print head cartridge
- Ink is not soluble in water and has excellent resistance to water and sunlight
- Carries the European CE mark

Cost Efficient, Innovative,
Reliable, Safe

At Stork we deliver excellence in the design, manufacture and product support of Heat Treatment Equipment.

Contact us today for all your heat treatment requirements.

STORK®

Stork Thermal and
Inspection Services

Stork locations
worldwide:

- United Kingdom
- The Netherlands
- United States
- Saudi Arabia
- United Arab Emirates
- Australia
- Malaysia
- New Zealand

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SPECIFICATIONS

POWER REQUIREMENT

Power supply voltage: 110V a.c. to 240V a.c.
Power supply frequency: 50Hz / 60Hz

OPERATING ENVIRONMENT:

Temperature limits: 0 to 50°C
Humidity: 20 to 80% RH, non condensing is required
(Temperature x humidity < 3200)
Environmental protection: IEC IP50 (front door of panel mounted unit)

INPUTS

Input points: 12 points
Input thermocouple types: Thermocouple inputs...K, B, R, S, E, J, T, N, W, L, U, PN
Thermocouples other than type K must be connected to the inner recorder directly or via the correct thermocouple type, panel mounted socket and instrument thermocouple extension.
Reference range: Type K: -200°C to 1370°C (-326°F to 2498°F)

RECORDING SYSTEM

Printing system: Ink jet system, 6 colour
Chart width: 180mm
Chart length: Z fold 20m
Chart speed: 5 to 300 mm per hour (continuous recording)

ACCURACY

For type K thermocouple input : -
Indication: $\pm (0.15\% + 1 \text{ digit})$
Without reference junction compensation error
Recording: $\pm (0.25\% + 1 \text{ digit})$ of recording span
Chart speed: $\pm 0.1\%$
Not including expansion and contraction of paper
Clock: $\pm 50\text{pmm}$ or less
Monthly error approximately 2 minutes per month

PHYSICAL

Weight (with case): 18kg
Dimensions (outer case): 360mm wide x 428mm deep x 328mm high

SPARE REPLACEMENT PARTS

PART NUMBER

DESCRIPTION

542-278	Carriage motor
542-279	Chart motor
542-280	Timing belt
542-281	Drive cable
516-525	Panel mounted type K thermocouple socket

CONSUMABLES

542-277	Recorder print head
542-266	Chart paper 180mm

