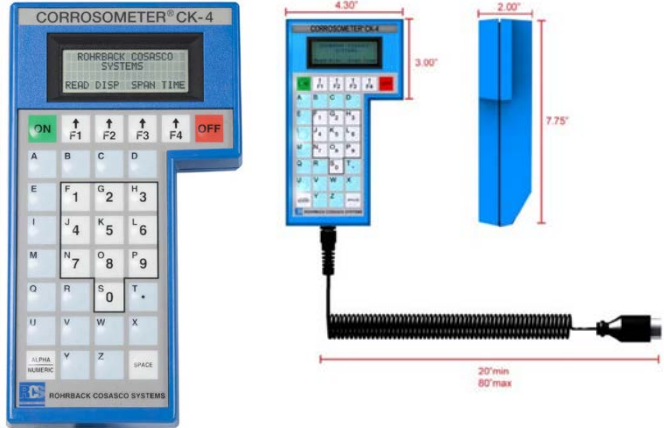# CORROSION MONITORING SYSTEMS

Rohrback Cosasco Systems – Hand Held Instruments

Specifications:

- **Compatibility:** Direct measurement to all CORROSOMETER® probes and CORROTEMP®CORROSOMETER® probes.
- **Measurement Resolution:** Corrosion - 1 division (0.1% of probe span) Temperature - 1°C
- **Repeatability:** Corrosion ±5 divisions (±0.5% of probe span) Temperature ±3°C
- **Power Source:** 6 AA alkaline cells
- **Probe Cable:** Extension cables up to 50 ft. (15m)
- **Hazardous Area Certification:** UL/ULc (Class 1, Div. 1, Groups A, B, C, D, Temp. T3C) for USA and Canada
- **Included Accessories:** Carrying case (P/N 723631); 6 batteries (P/N 748066); Instrument Test Probe (P/N 700642); Operation and Maintenance Manual.
- **Included Accessories:** Carrying case (P/N 723631); 6 batteries (P/N 748066); Instrument Test Probe (P/N 700642); Operation and Maintenance Manual.
- **Weight Without Carrying Case:** 1.5 lbs. (0.68kg)
- **Weight With Carrying Case:** 5 lbs. (2.3 kg)

Corrosometer® CK-4 Portable Instrument

Features:

- Portable
- Intrinsically Safe
- CORROSOMETER® & CORROTEMP®
- CORROSOMETER® Probe Compatibility
- Temperature Readout -40°C to +260 °C
- Data Storage for 26 Probe Locations
- Calculates Corrosion Rate From Last Probe Reading

The combination of corrosion and temperature measurement is particularly useful in process plants, chemical plants, and refineries - where changes in operating temperature can have a major impact on corrosion rates. High temperatures that push or exceed the design conditions may improve output, but may result in unacceptably high corrosion rates which are costly and shorten plant life. Now operators and corrosion engineers can obtain a direct correlation between temperature and corrosion rate from one instrument.

CK-4 users will appreciate the additional corrosion management data and convenience which this low capital cost instrument provide.

The CK-4 joins a new generation of multi-parameter corrosion monitors (including the CORRDATA® Mate II), designed to read corrosion metal loss and temperature. The portable CK-4 has a built-in memory which stores readings for subsequent retrieval, so that operators do not have to carry a notebook and pencil for manual recording. It even calculates a corrosion rate from the last probe reading to the present, when sufficient time exists between readings.

This intrinsically safe instrument utilizes the advanced RCS technology in CORROSOMETER® probe measurement with the ability to measure temperature from the new line of CORROTEMP® probes. The CK-4 is simple to operate and does not require additional pins or separate connectors to read temperatures from CORROTEMP® probes.

Stock Code 670-71026: CK-4-1-2 – CK-4 Instrument UL/ULc for USA & Canada with Corrdata®Plus Windows®PC Software Package (manual input)

CORROSION MONITORING SYSTEMS

Rohrback Cosasco Systems – Hand Held Instruments

Corrosometer® CHECKMATE Portable Instrument
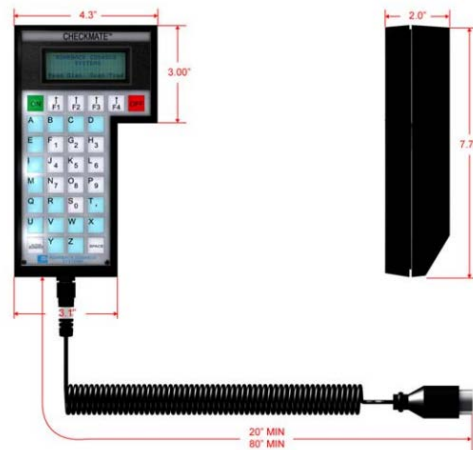
Features:

- Reads all CORROSOMETER® (Electrical Resistance) Corrosion Probes
- Measurement Resolution – 0.1 Probe Divisions (0.01% of Probe Span)
- Repeatability - ± 1 Division (0.1% of Probe Span)
- Rapid Measurement Cycle – 30 Sec.
- Downloads Stored Readings Directly to PC
- Certified for use in Hazardous Locations. Intrinsically Safe – (ATEX/UL/ULc (IEC) Certified)

The Checkmate is the newest addition to the industry-standard Corrosometer® Product Line.

Using "state of the art" surface mount integrated circuits, the sophisticated electronics provides higher resolution and measurement accuracy of Corrosometer (Electrical Resistance) corrosion probes.

The measurement cycle time for direct probe readings has been reduced to 30 seconds while still maintaining high accuracy. The Checkmate with Corrdata Plus Software option enables stored readings to be easily downloaded to a PC where graphing and analysis can be performed with Corrdata Plus Software.

The instrument is well suited for use in harsh field environments and certified for use in Class I, Zone 1 (Hazardous Locations).

Specifications:

- **Compatibility:** Direct Measurement of all Corrosometer Probes (To download from Corrdata RDC's, see Checkmate Plus Instrument)
- **Metal Loss Resolution:** 0.1 Division 0.01% of Probe Span
- **Metal Loss Repeatability:** ±1 Division 0.1% of Probe Span Stores up to 204 Individual Probes (10 readings per probe)
- **Power Source:** 6 AA Alkaline Batteries
- **Battery Life:** 900 Probe Readings, typical
- **Temperature Range:**
  Operating: 0ºF to 122ºF (-18ºC to 50ºC)
  Storage: 0ºF to 150ºF (-18ºC to 65ºC)
- **Probe Cable:** Extension Cables up to 200 ft. (61m)
- **Hazardous Area Certification:** Class I, Zone 1
  North America: Europe:
  UL AEx ib IIC T4   CE (EMC) Directive
  ULc Ex ib IIC T4   ATEX EEx ib IIC T4
  Conformity Assessment document is available for Australia.
- **Enclosure:** Splash-proof enclosure with sealed membrane keyboard
- **Weight:** 1.5 lbs. (0.68 kg)

Accessories:

- Field carrying case, Leather – P/N 723631

Stock Code 670-71023 – Checkmate-1 Portable Corrosometer Instrument with Corrdata®Plus Software

CORROSION MONITORING SYSTEMS

Rohrback Cosasco Systems – Hand Held Instruments

![SPA - SAVCOR PRODUCTS AUSTRALIA PTY LTD logo]

Features:

- Reads all CORROSOMETER® (Electrical Resistance) Corrosion Probes
- Downloads Stored Corrosion Data From Corrdata® Remote Data Collectors
- Measurement Resolution – 0.1 Probe Divisions (0.01% of Probe Span)
- Repeatability - ± 1 Division (0.1% of Probe Span)
- Rapid Measurement Cycle – 30 Sec.
- Downloads Stored Readings Directly to PC
- Certified for use in Hazardous Locations. Intrinsically Safe – (ATEX/UL/ULc (IEC) Certified)

The Checkmate Plus is the newest addition to the industry-standard Corrdata® Product Line.
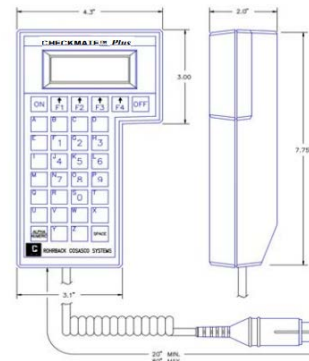
Using "state of the art" surface mount integrated circuits, the sophisticated electronics provides higher resolution and measurement accuracy of Corrosometer (Electrical Resistance) corrosion probes.

The measurement cycle time for direct probe readings has been reduced to 30 seconds while still maintaining high accuracy.

The Checkmate Plus has the capability to download stored corrosion data from Corrdata® Remote Data Collectors.

Stored readings are easily downloaded to a PC where graphing and analysis can be performed with Corrdata Plus Software.

The instrument is well suited for use in harsh field environments and certified for use in Class I, Zone 1 (Hazardous Locations).

Specifications:

- **Compatibility:** All Corrosometer probes All Remote Data collectors
- **Metal Loss Resolution:** 0.1 Division 0.01% of Probe Span
- **Metal Loss Repeatability:** ±1 Division 0.1% of Probe Span Stores up to 204 Individual Probes (80 readings per probe)
- **Power Source:** 6 AA Alkaline Batteries
- **Battery Life:** 900 Probe Readings, typical
- **Temperature Range:**
  Operating: 0ºF to 122ºF (-18ºC to 50ºC)
  Storage: 0ºF to 150ºF (-18ºC to 65ºC)
- **Probe Cable:** Extension Cables up to 200 ft. (61m)

Hazardous Area Certification: Class I, Zone 1
North America: **Europe:**
UL AEx ib IIC T4   CE (EMC) Directive
ULc Ex ib IIC T4   ATEX EEx ib IIC T4.
Australia: Conformity Assessment document is available for Australia
Enclosure: Splash-proof enclosure with sealed membrane keyboard

- Weight without carrying case: 1.5 lbs. (0.68 kg)
- Weight with carrying case: 5 lbs (2.3kg)

Accessories:
- Field carrying case, Leather – P/N 723631

Stock Code 670-71024 – CheckmatePlus Portable Corrosometer Instrument kit