

Model **DCMS™**

Downhole Corrosion Monitoring System



Features:

- **Realtime Corrosion Rate and Temperature Data**
- **Rated to 10,000 psi or 285 °F (140 °C)**
- **Setting and Retrieval at any Depth**
- **Battery life of 75 Days**
- **1,024 Data Point Storage Capacity**
- **Easy Downloading and Graphing of Data via CORRDATA® Plus Software**

The DCMS™ tool is another RCS innovation, and the only tool available which provides real time corrosion and temperature data for the hostile conditions of downhole operation. The sensitivity of the system enables the film persistence of inhibitors to be evaluated in actual operating conditions, something that was not possible prior to the development of the DCMS™.

The DCMS™ tool may be attached to a variety of wireline approved running tools for insertion into the production well at the start of testing and retrieval from the well at the end of the testing period. Selection of the appropriate wire-line tools allow the DCMS™ tool to be set at any required depth — wherever the most critical corrosion regions are located. Several DCMS™ tools may be run simultaneously in a well, in order to obtain corrosion data

for the different depths, while under the same operating conditions.

The DCMS™ tool is comprised of a CORROSOMETER® probe, an electronic memory module and a battery pack. The body of the DCMS™ tool is a 17-4 PH stainless steel body treated to satisfy NACE MR0175 requirements. The body has a 1.25" OD with a 5/8" sucker rod connection for attachment to the wireline-run tubing hanger or lock. The design of the tool permits operation up to 10,000 psi and 285 ° F (140° C). The electronic module is powered by a lithium battery pack that will provide more than 75 days of data, when programmed to read once every two hours. Even if the tool is left in the well beyond the battery life, the non-volatile memory protects the recorded data. The probe sampling interval of 15 min., 30 min., 1 hr., 2 hrs., or 4 hrs. may be selected as required to fit within the 1,024

reading storage capacity for the run time in the well. The probe measurement element, which is usually made of carbon steel, is electrically isolated from the DCMS™ tool body, to prevent galvanic action between the probe body and the probe element. After retrieval from the well, the memory module is removed from the DCMS™ tool for transfer of the data via a CORRDATA® Mate instrument to

a PC running CORRDATA® Plus Software. On the PC, the corrosion and temperature data is presented in a graph format which can be easily analyzed for identification of the real time corrosion characteristics.

The complete service for running the DCMS™ tool is available through an RCS affiliated company.

Specifications:

Probe Spans:

T10 - 5 mils, T20 - 10 mils

Resolution:

1% of Probe Span

Power Source:

Lithium battery

Typical Battery Life:

75-85 days, reading once every 2 hours

Maximum Operating Pressure:

10,000 psi

Maximum Operating Temperature:

285 ° F

Weight:

30 lbs. (13.6 kg)

Shipping Weight:

60 lbs. (27.2 kg)

Ordering Information:

Part Number

724000

724005

Description

Complete Downhole Corrosion Monitoring Tool

DCMS™ Special Tool Kit



Rohrback Cosasco Systems, Inc.
11841 East Smith Avenue
Santa Fe Springs, CA 90670, USA
Tel: (1) 562-949-0123 Fax: (1) 562-949-3065
US Toll Free: 800-635-6898
E-Mail: sales@cosasco.com
Web Site: www.cosasco.com



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