

Cyanco CCS[®] - CN_{WAD} Analytical System

Panel Mounted Model

TECHNICAL DATA SHEET

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With a high degree of accuracy, Cyanco's CCS[®] - CN_{WAD} analytical systems measure and monitor the cyanide ion CN, and the cyanide complexes of Cu, Ni, Zn, Cd and Ag (among other species) that collectively are referred to as Weak Acid Dissociable Cyanide (CN_{WAD}). All Cyanco's CN_{WAD} systems can be combined with a CCS[®] - CN_{FREE} system to achieve monitoring and additional control of sodium cyanide usage throughout the entire cyanide circuit from leaching through detoxification.

What It Does

The CCS[®] - CN_{WAD} analytical system records CN_{WAD} concentrations and provides periodic CN_{WAD} analyses within the treatment circuit, helping control the addition of reagents for detoxification.

Each CCS[®] - CN_{WAD} analytical system unit is custom-designed to fit each customer's specific applications, with the technology that best matches your mine's unique needs.

The output signal from any CCS[®] can be analog/digital or Ethernet (TCP/IP) and can be used to control the cyanide detoxification reagent additions to closely achieve the desired set point. The signal from the control unit can be used to operate virtually any controllable valve through the mill's control system (DCS or PLC).

CCS[®] Features:

- » Provides up to 6-8 analyses per hour
- » Handles up to four separate streams
- » Meets UL[®] specifications
- » Each unit is designed for your specific production process

How It Works

Cyanco's CCS[®] - CN_{WAD} analytical system:

- 1 TOP:** Operator interface and data processing.
- 2 MIDDLE:** Sample analysis includes pumps for adding reagents and detector to provide CN_{WAD} results.
- 3 BOTTOM:** Reagents stored here. The system is also equipped with sample pump and reservoirs, which provide the clear sample used for analysis.

NOTE: Training of personnel is conducted during installation with refresher training available



CUSTOMER BENEFITS



COST SAVINGS

Accurate monitoring and control of reagent consumption reduces treatment costs and prevents overdosing.

AUTOMATION

Minimizing the need for manual sample analysis reduces turn-around times and employee costs, which contributes to further savings.

FLEXIBILITY

Also can be used with filtration system (included) on slurry samples.

PROCESS EFFICIENCY

Precise analysis of CN_{WAD} in effluent samples before and after treatment ensures accuracy. Repeatable results produced in under 30 minutes saves time and money.

COMPLIANCE

Monitoring the effluent treatment circuit ensures compliance with treatment targets such as those recommended by the International Cyanide Management Code (ICMC).