



GENERAL

The municipality of Xiamen, located in Fujian Province, P.R.C., has placed an order with Motorola, for the supply of an advanced remote measuring and automatic communication and control system for Gaodian Water Works pipeline network.

The new system, based on Motorola's sophisticated MOSCAD RTU, functioning both as a pump station RTU and as a tank and filter RTU, also interfaces to existing equipment from Modicon, using the Modbus protocol.

MOSCAD & MDLC

In this project, the MOSCAD RTU is used to monitor and control various equipment installed along the pipeline and also to control the operation of the pump stations..

The MDLC radio communication is implemented over the 230 MHz band. Some RTUs use the Store&Forward function in order to provide full radio coverage.

Using MDLC protocol, based on ISO/OSI seven layers reference model, ensures efficient and reliable data communication.

SYSTEM OVERVIEW

The system comprises one Master Control Center (MCC) of Modicon, and 13 MOSCAD RTUs.

The connection of the MCC to the MDLC network is done using a MOSCAD FIU and BM85 converter, Modbus-Plus to Modbus.

Two MOSCAD RTUs are connected to existing Modicon PLCs via Modbus. These MOSCAD

RTUs perform full emulation of the Modbus protocol.

CAPACITY & FUTURE EXPANSION

The first stage of this project covers 42 km of the pipeline, and includes 13 MOSCAD RTUs.

The municipality of Xiamen is planning to expand their pipeline and add tens of RTUs accordingly. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication for reporting alarms
Protocol Emulation Capability	Provides connection to the existing Modicon PLC
Multi-protocol processor based on Motorola 68302	Allows multi-tasking operation with on-line network monitoring, traffic analysis, on-line diagnostics, remote monitoring and error logging
Upload/download capability	Application program can be easily changed or modified and downloaded to the RTUs in the sites
Remote diagnostics	Permits maintenance staff to identify and correct problems at the RTUs from any site in the system

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