



# AUTOSOL Communication Manager® (ACM)

High Performance Combined with Unrivalled Flexibility

In today's environment, you depend on security, reliability and speed when it comes to effectively communicating with your SCADA, EFM or AMR system. You need to handle a wide range of devices – from those with the latest technologies to older equipment whose life could be extended. And most of all, you want a single, easy-to-use solution that's economical.

AUTOSOL Communication Manager® (ACM) sets new industry standards for ease of configuration, flexibility and communication optimization through its robust diagnostic and system troubleshooting capability. *Featuring an OPC UA server*, ACM communicates with SCADA and utility metering devices through a wide array of native protocols over almost any type of telemetry circuit.

Our software delivers the level of performance you need to obtain data that will meet the most strenuous requirements of regulatory compliance. Even when legacy or aging communication networks cause difficulties in retrieving your data, ACM's unparalleled flexibility in telemetry allows you to maintain that desired system performance. After efficiently retrieving the data from the field, ACM's comprehensive drivers export your historical meter data to your flow validation and accounting systems, wherever they are.

ACM's multi-protocol ability supports the integration of legacy devices with emerging metering technologies. This extends the useful life of the installed legacy meters while at the same time providing a path for systematic upgrades. ACM allows for immediate and effective implementation of the complete polling system, resulting in a significant return on investment.

The base price of ACM includes all device and history protocols, telemetry methods, reports and functions and is expandable from one device up to thousands of devices in a single installation. This scalability provides customers with the flexibility to expand their systems on an as-needed basis further maximizing ROI.

## Key Features

- Supports **multiple protocols over a single telemetry** channel or circuit.
- *Supports MQTT via Sparkplug B specification to ensure communication with IOT devices.*
- Supports **concurrent polling** through any type of telemetry.
- Supports **SCADA control and EFM/AMR systems simultaneously** in a single installation.
- Supports **retrieval of archived data from EFM/AMR devices**. Data can be published to multiple file formats, databases, and validation/accounting systems.
- Includes protocol modules developed to **support legacy SCADA and AMR systems** used during the extended transition to new SCADA host systems or data warehouse systems.
- Supports the **ability to modify the configuration while the product is "on-line"** without server restart.
- Supports **multiple local and remote concurrent users** to allow your team to work together without difficulty.
- Provides **data and communication status detail** within the configuration program as users issue commands and add items to poll.
- Allows users to **assign polling priorities** to items or tasks.
- Provides an **audit trail** for configuration changes, as well as the commands that are issued.
- Includes a **robust logger and dashboard** as diagnostic tools to be used by local or remote support personnel.
- Supports **redundant communication paths**, redundant configuration (via SQL Server) and allows HMI control of primary /backup switch-over.
- Supports the **ability to easily review retrieved EFM record details** and spot gaps in history.
- Allows for **easy generation of reports** varying from device communication status to missing records.
- Allows for **automatic generation and sending** of reports.

# Compatibility

## HMI SCADA Hosts

ACM can interface with most SCADA hosts available today. Listed below is an example of existing interfaces to AUTOSOL software:

- ABB SCADA Advantage
- Emerson Delta V
- GE Complicity, iFix
- Honeywell Experion
- Iconics Genesis
- Inductive Automation Ignition
- Rockwell FactoryTalk
- Schneider Electric EcoStruxure Geo SCADA Expert
- Schneider Electric Vijeo
- Schneider Electric Citect
- Schneider Electric Telvent
- Schneider Electric Wonderware
- Siemens WinCC
- Yokogawa Fast Tools

## Telemetry Methods

- CDMA
- Conventional Radio
- Dial-Up
- Ethernet TCP/IP, UDP/IP
- GPRS
- Leased-Line
- PSTN
- Terminal Server TCP/IP, UDP/IP
- TCP Listen
- TCP Pooling
- Trunking Radio
- Satellite/VSAT
- Serial Cable
- Serial Multi-Drop
- Spread Spectrum Radio

## EFM Validation Software

- Flow-Cal CFX
- Flow-Cal CFX 7 (Gas & Liquids)
- Flow-Cal CFX 8 (Gas & Liquids)
- Flow-Cal Transaction Queue
- Quorum PGAS-XML (Gas & Liquids)

## Server Configuration Database

- Microsoft SQL Server

## Native Protocols

- ABB Totalflow
- ABB (Spirit) FlowX
- Allen Bradley ControlLogix
- Allen Bradley DF1
- Barton Scancom
- Benchmark
- DEC Asynchronous
- DNP3
- Eagle Research
- Emerson (Bristol Babcock) BSAP
- Emerson (Fisher) ROC
- Emerson (Fisher) ROCPlus
- FBNet
- GE SRTTP
- Hex Repeater
- Honeywell Mercury Instruments
- Kimray
- Siemens CAMP
- TGP Binary
- Thermo Flow Automation

## Modbus Protocols

ACM functionality can be expanded by developing additional interfaces with any Modbus device. Specific protocols currently provided with the ACM software are:

- Cameron Scanner 1150
- Daniels
- Dynamic Flow Computers Micro MVL
- DynaPump
- Enron
- ETNG
- Extreme Telematics ALiEnz
- FB3000
- KM RTU
- Lufkin Automation
- Lufkin SAM
- Modbus/TCP
- Motorola MOSCAD
- Omni Flow
- PCS Plunger Lift
- Prosoft
- Schneider Electric SCADAPack

## EFM and Historical Data Interface

- MQTT Sparkplug B
- Microsoft Access
- Microsoft SQL Server
- Oracle
- SQL Databases via ADO
- XML Data Stream

## System Requirements

ACM supports the following operating systems in both 32 and 64-bit:

- **Microsoft Windows:** 7, 8, 8.1, and 10
- **Microsoft Windows Server:** 2008, 2008R2, 2012, 2012R2, 2016 and 2019
- **.NET Framework 3.5 and 4.0 are required**

ACM requires a Microsoft SQL Server for storing its configuration:

- **Microsoft SQL Server:** 2008R2, 2012, 2014, 2016, and 2017 (using Native Client 11)  
Express, Standard, and Enterprise editions are supported, including Microsoft Azure

## Custom Software Development

AUTOSOL's software engineers and developers are continually enhancing the flexibility and scalability of our products. In addition to our internal product development efforts, AUTOSOL offers custom software development services to provide support for our client's needs.

**Specifications are subject to change without notice.**



The innovative technological capabilities of AUTOSOL® products are protected by US Patents 6,628,992; 6,950,851; 6,961,753; 7,073,182; 7,225,248; 7,587,481; 7,646,298; 7,673,337; 7,673,8; 7,747,710; 8,316,232; 8,364,950; 8,694,770; 8,898,481; 8,935,523; 8,966,117; 9,100,318; 9,306,946 and patents pending.

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