

# OPUS software



Specialists in Telemetry & SCADA System Software

## FEATURES

- Integrated Information Management System.
- Support for both Microsoft Access and Sql Server databases.
- Integrated SQL Interface using standard Microsoft packages.
- Integrated Web Interface for Intranet and/or Internet browser access.
- Powerful Advanced Graphic Workstation user interface.
- Management report generation supporting both text and HTML file generation.
- Point processing with extensive maths, logic and control functions.
- Support for 'out of hours' operation including pager alarms, facsimile reports and SMS mobile texting service.
- Full featured Software Development Kit for the Microsoft .NET Framework environment.
- Extensive system administration tools, performance monitoring and logs.
- Remote diagnostics.

## OPUS PC6-SQL Telemetry/SCADA System

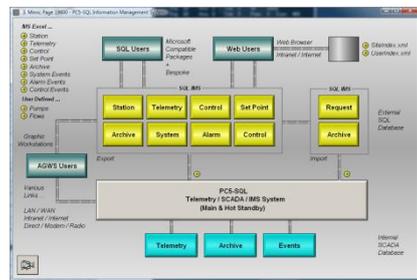
OPUS SOFTWARE presents **PC6-SQL**, the sixth generation of Telemetry/SCADA (Supervisory Control and Data Acquisition) software. This system is without doubt the most capable and technically advanced SCADA software package available today; combining the very latest real-time multi-tasking software with an integrated SQL based Information Management System and sophisticated Web Interface.

### Standard System Software

The **PC6-SQL** software is the culmination of 20 years of continued development and refinement. This sixth generation product is designed for use on Microsoft Windows 7 based systems.

The proprietary package is state-of-the-art, having been extensively field proven over the years to provide an extremely capable and flexible system, one that is able to meet your current needs and able to grow to accommodate your future requirements.

**PC6-SQL** is ideally suited to all sizes of system ranging from small standalone HMIs to large distributed multi-user telemetry schemes.



PC6-SQL Information Management System

### Data Acquisition

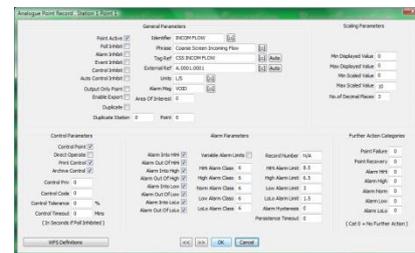
The system is capable of simultaneously communicating over 32 full duplex data acquisition channels using a variety of protocol emulators. Various asynchronous links (bearer circuits) may be utilised including local and wide area networks.

Measured Parameter	Today	Day-1	Day-2	Day-3	Day-4	Day-5	Day-6	Day-7
No of Connected Calls	44107	0	0	0	0	0	0	0
No of Failed Calls	129	0	0	0	0	0	0	0
No of Incoming Calls	0	0	0	0	0	0	0	0
Max Station Time (secs)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg Station Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Connect Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg Connect Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Connect Time (secs)	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg Connect Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Link Performance (%)	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No of Messages Txd	409419	0	0	0	0	0	0	0
No of Failed Messages	144	0	0	0	0	0	0	0
No of Incoming Messages	302030	0	0	0	0	0	0	0
Max Ready Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg Ready Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Ready Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg Ready Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Comms Performance (%)	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Communications Performance Monitoring

### Telemetry Database

At the heart of the **PC6-SQL** system is a fixed-schema relational database that has been specifically designed for high-speed real-time telemetry access. This database is independent of the SQL IMS and hence provides for both efficient and fault tolerant operation of the Telemetry/SCADA system. In addition, exported telemetry data can be accessed via the SQL database tables using a variety of Microsoft compatible products (MS Access, MS Excel etc.).



Database Reconfiguration

### Point Histories

**PC6-SQL** maintains a history of the most recent significant changes for each and every telemetry (digital, analogue and totalised) point on the system. A point's recent history can be displayed in graphical or summary form with a simple mouse click on the graphic workstation.

Point ID	Value	Time	Unit
0001	7.953	23 Nov 07 15:12:29	L/S
0001	4.298	23 Nov 07 15:11:48	L/S
0001	4.277	23 Nov 07 15:11:07	L/S
0001	3.95	23 Nov 07 15:10:26	L/S
0001	4.212	23 Nov 07 15:09:45	L/S
0001	4.915	23 Nov 07 15:09:04	L/S
0001	4.511	23 Nov 07 15:08:23	L/S
0001	5.054	23 Nov 07 15:07:01	L/S
0001	5.904	23 Nov 07 15:06:20	L/S
0001	5.615	23 Nov 07 15:05:39	L/S
0001	6.57	23 Nov 07 15:05:39	L/S

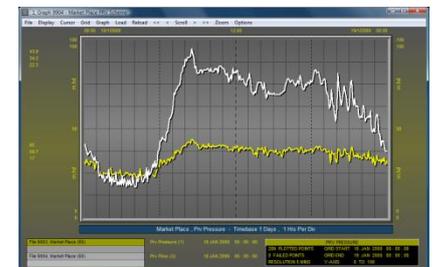
Point History

### Point Archiving

The point archive consists of data files recording all locally sampled and remotely acquired periodic point archive data and time-stamped point archive data. All telemetry points on the system can be archived, including pseudo (calculated) points and points imported from the SQL database. All

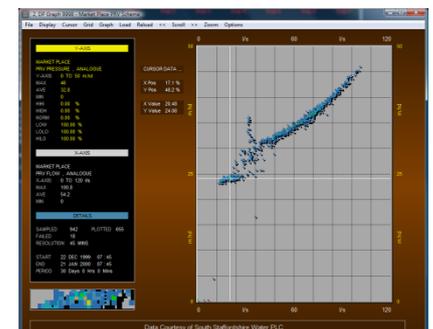
point archive files are backed up automatically daily and monthly by the system providing an unlimited record.

The Archives Directory lists details of all archives, any that haven't been updated for more than 24 hours are displayed in yellow. Exported archive data can be accessed via the SQL Archive database.



Graph Analysis

Both live and historic data may be examined on the system and displayed in a variety of formats. The Archive Data Manager utility enables you to edit, compress, extract, resize, merge and convert archive data files into text files or spreadsheet formats.



Dual Parameter Graph Analysis



by assigning unique area codes to the configured stations and/or points.

### Controls

Digital and analogue controls may be performed by a privileged operator via either summary displays or mimic pages. The operating privilege level for performing controls is configured within the workstation, an operator must be logged into an account with this privilege level or higher in order to execute controls.

### Alarm Display and Management

The workstation displays the highest priority alarm in a dedicated window area and can be configured to vocally announce alarms. Numerous summary commands are provided to query the system and display alarm data, optional search restrictions can be used to filter the resulting real-time summary data.

### Concert Operation and Messaging

Multiple workstation displays can be controlled via a single keyboard. A message exchange facility is provided between operators and separate PC6-SQL sites.

### System Security

System security for workstation and web access is afforded using privileged user accounts accessible by password entry.

### Out of Hours Operation

The Alarm Paging software provides an 'out of hours' alarm dial out facility to send email, fax, or SMS text messages to selected duty officers or offices.

The system also caters for selective paging of duty officers on a station or individual point basis.



Alarm Dial out to Mobile Devices

### Management Reports

The Management Report Generator supports free-format report generation for on-demand, batch and event driven reporting. Both text and HTML report formats are supported. All reports are automatically archived to disk and tagged with unique date/time codes. Text reports may optionally be printed, emailed and/or faxed.

Site	To Station Name	Last Updated
0004	FINE SCREEN SECTION	PSTN 0.0 % Comms 100.0 %
Type: OPUS 83M		

Point No	To Point Identifier	State/Value	Description
0004	FINE SCREEN SECTION	17 Apr 2003, 09:29 Hrs	
0001.1	FINE SCREEN 1	WARNING	Fine Screening Unit
0002.4	FINE SCREEN 1	OK	Fine Screening Unit
0002.2	FINE SCREEN 1	WARNING	Fine Screening Unit
0004.1	FINE SCREEN 2	WARNING	Fine Screening Unit
0004.4	FINE SCREEN 2	TRIPPED	Fine Screening Unit
0006.2	FINE SCREEN 2	WARNING	Fine Screening Unit
0007.1	FINE SCREEN 3	WARNING	Fine Screening Unit
0006.4	FINE SCREEN 3	TRIPPED	Fine Screening Unit
0009.2	FINE SCREEN 3	AUTOMATIC	Fine Screening Unit
0010.1	INLET PRT	TRIPPED	Fine Screen Inlet Penstock
0012.4	INLET PRT	TRIPPED	Fine Screen Inlet Penstock
0013.2	INLET PRT	TRIPPED	Fine Screen Inlet Penstock
0014.1	OUTLET PRT	TRIPPED	Fine Screen Outlet Penstock
0014.4	OUTLET PRT	TRIPPED	Fine Screen Outlet Penstock

HTML Management Report

### General Processing

The General Point Processor provides extensive maths, logic and control functions. These functions may invoke other data processing and control applications, or trigger events such as the generation of reports, alarm dial out, paging, faxed messages etc.

**Control GPP Functions**

The control functions, numbered 400 through to 999, identify control modes within the GPP (eg. modes created etc.). These functions may be used to initiate control actions on the Master station. The control functions do not affect any previous results calculated within a Process Formula and therefore the number of control functions can be used to terminate an expression.

A.B. The 'P\_point' is used to identify the digital analogue or totalised point on which the GPP control function is based. The 'P\_name' is used to identify a digital control point. In the case of the SPLDAD (FSD) function, the 'P\_name' should identify a digital control point.

Use L, V, or P, items when you require floating point values as parameters to functions.

For example: 10 copy the value 0 to process point number 1.

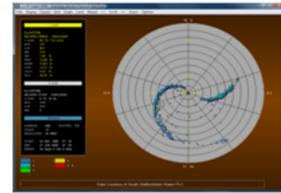
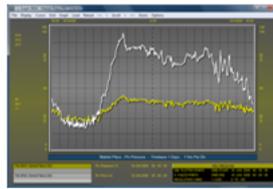
to configure a process control (eg. process control number 0) with the value 0.0.

to configure the process formula as COPPER (P1).

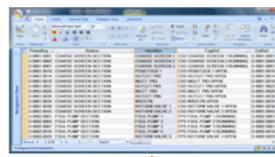
Manoeuvre	System	Description
RES	FAB	Get a point to the OFF (1) state.
SET1	FAB1	Get a point to the OFF (1) state.
SET2	FAB2	Get a point to the OFF (2) state.
COPI	FAD1	Copy the result of exp into P_point or V_point.
COPI2	FAD2	Copy the result of exp into P_point or V_point.
COPI3	FAD3	Copy the result of exp into P_point or V_point.
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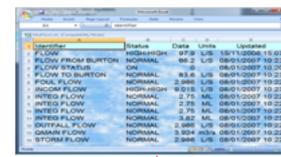
Opus AGWS6 Graphic Workstation



Web Browser



MS Access



MS Excel

Web Browser  
Intranet / Internet  
Access

Desktop, Laptop, Tablet PCs  
PDA and Mobile Phones

Web Users

Exported  
SQL  
Data

SQL Users

SQL Users

Microsoft  
Compatible  
Packages  
+  
Bespoke

Graphic  
Workstations

AGWS Users

Various  
Links ...  
LAN / WAN  
Intranet / Internet  
Direct / Modem / Radio

Telemetry Database and Archive

Telemetry  
Internal  
SCADA  
Databases

Archive

Events

Microsoft Office Applications

Files

Files

Apps

Microsoft  
.NET Framework

WFS  
Drivers and  
Programs

Enhanced WFS Options

Drivers

WFS  
Workstation  
File  
Server

External  
Data  
Sources

WFS