Supervisory Substation Unit

The Avara Supervisory Substation Unit is a member of Avara's DynaFlex product family. It provides a data acquisition function to gather information from a variety of input signal sources, which includes digital, analogue, frequency or temperature inputs. It also provides a number of digital relay outputs to control external equipment.

The Avara Supervisory Substation Unit can be used to monitor the state of critical equipment and systems located on site.

Providing reliable monitoring of equipment such as power supplies, air conditioning systems, fire and intruder alarm systems and communication systems.

The Supervisory Substation Unit features:

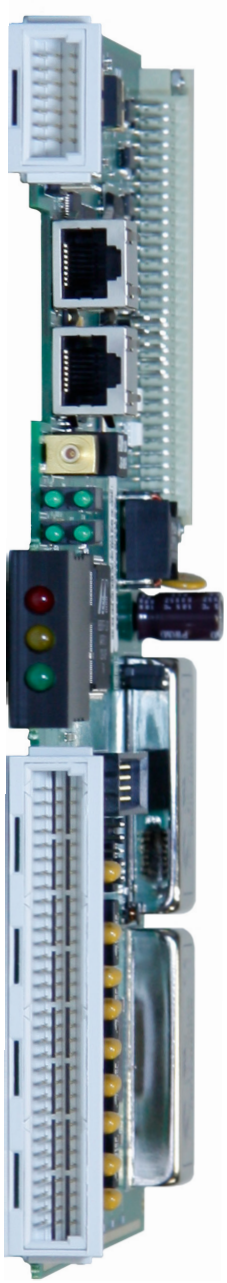
24 Digital Inputs
8 Analog Inputs
4 Frequency Pulse Inputs
8 Relay Outputs

The card can be configured and managed using the Q1 protocol via the physical V.11 ports.

When an Ethernet based network connection is available, the data acquisition card can be managed using IP, Telnet and SNMP.

Standards compliant performance monitoring, statistics and diagnostics are available to facilitate fault management isolation.

Remote software download and unit configuration using TFTP is available as is a comprehensive set of SNMP traps and alarms for fault management.



Supervisory Substation Unit

Technical Highlights

Key Features

- 24 x Digital Inputs
- 8 x analog Inputs
- 4 x frequency pulse inputs
- 8 x Relay outputs
- Pluggable into DynaFlex mechanics
- Manageable via Q1, Telnet, SNMP
- -20 to -72 VDC Power Supply
- -20 to +65 °C operation

D14071701 Revision 4

Technical Specifications

Model Order Code P61036.01	Supervisory Substation Unit	**Mechanical** Height-Depth-Width	233 x 160 x 25mm
Digital Inputs Number of inputs Input types Input protection	 24 TTL or E&M +/- 80V	**Power** Power Supply Power Consumption	 -20 to -72 VDC 12 W (Max)
Analogue Inputs Number of inputs Input impedance Input voltage range Input protection	 8 100kΩ +/- 80V +/- 80V	**Alarm Reporting** Front panel LED	 Major (red) Minor (yellow) A,B,D and S alarm reported to bus for relay contact activation on PIU
Pulse Inputs Number of inputs Maximum frequency Input voltage range	 4 1 MHz +/- 80V	**Environmental** Operating Temperature Relative Humidity	 -20 °C to +65 °C 5-90% (Non-condensing)
Relay Outputs Number of outputs Logic "0" Logic "1" Voltages Between relay contacts Between contacts and ground	 8 >=100 kΩ to ground <= 100 Ω to ground 100V, relay open 200V DC, relay open or closed.	**Standards**	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet RFC1157 SNMP RFC1213 MIB II RFC854 Telnet RFC783 TFTP EN55022 Class A Emissions EN60950 Safety EN55024 Immunity EN50082-2 Generic Immunity IEC 61850-3 ITU-T V.11 ETS 300 019 -1-1 Operational ETS 300 019 -1-2 Storage ETS 300 019 -1-3 Transport A-tick / C-tick CE Mark
External Power Output Output Voltage Current limit	 10 V 25mA		
Management Local Remote Q1	 CLI via Console (RS-232) Telnet, SNMP, ASPeCT V.11 MI/DI		

Head Office

1/45 Normanby Road,
Notting Hill, Victoria 3168
Australia
Tel: +61 3 95400330
Fax:+61 3 99236545

www.avaratechnologies.com

Regional Distributor

We make every effort to ensure this item has been created from environmentally sustainable products. We only print what we need.

Certified System Environment ISO 14001 SAI GLOBAL
Certified System Health & Safety OHSAS 18001 SAI GLOBAL
Certified System Quality ISO 9001 SAI GLOBAL

N13071 CE RoHS COMPLIANT

This publication is issued to provide information only which (unless agreed by Avara Technologies Pty. Ltd. in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or be regarded as a representation relating to the products or services concerned. Avara Technologies reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service. © Avara Technologies Pty. Ltd. 2013