

# COMMUNICATOR



**Communicator** is the latest version of the tried and tested platform for building control and integration technology. The system combines connectivity and integration, direct plant and equipment process control, web supervision and alarm management. Read on to learn about the unparalleled performance available for your building.

**Key features and benefits:**

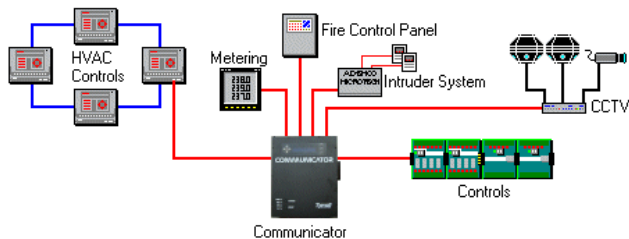
- ▶ Intelligent connectivity to up to 10 sub-systems through 260+ on-board building systems interface drivers
- ▶ On-board web server for custom graphics, data log display and alarm display, with client connectivity
- ▶ Downloadable alarm/web client application
- ▶ Incredibly fast and powerful process control module
- ▶ Rapid deployment reduces engineering costs
- ▶ Online update and configuration reduces site visits

■ **Power**

**Communicator** has the power and flexibility to deliver on all your requirements. This is not only achieved by the deployment of unrivalled building control processing power, but also in the combination of numerous software components, all of which are available through a simple configuration process. Communicator is currently only available as a wall mounting enclosure, if you have other requirements please contact to discuss them.

■ **The Power to Integrate**

Through the configuration of one of the numerous North drivers or Tyrrell extensions, Communicator is capable of fully integrating to over 250 different building systems, via serial, BUS or Ethernet communications standards.



True integration offers extensive information and control over sub-systems by umbilical linking through these standards straight to the heart of the sub-system. It is precisely this information that makes it possible for first time fixes on packaged plant by determining real faults from manufacturers information; not simply a "common alarm". Hooking in straight to the brain of sub-systems also offers extensive logical cause and effect strategy, through the use of process control strategy.

**MAXLON** provides the ability for Communicator to become part of a LON network. This OSX permits the Communicator to act as a LON device, hosting up to 1000 data points that can be mapped straight into LON Maker or other LON database tools. Other LON devices can also browse in to view, integrate or bind values from non-LON compliant systems, which are integrated through Communicator. These values can then be integrated into the overall optimisation strategy in the normal way.

**OPC** extension interface provides unrivalled interconnectivity for OPC clients from any Communicator connected systems. Fully configurable tags and point types are a winner with factory control integrations.

■ **The Power to Control**

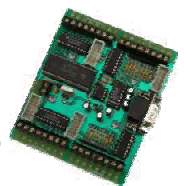
Aside the unrivalled connectivity are a collection of process control elements. These include the process control driver itself and connectivity to a number of Input / Output systems.

Communicator uses numerous external Input/Output systems to deliver control and monitoring of hard-wired points in the field. Through these and other drivers, you have the flexibility to choose how to control the plant.

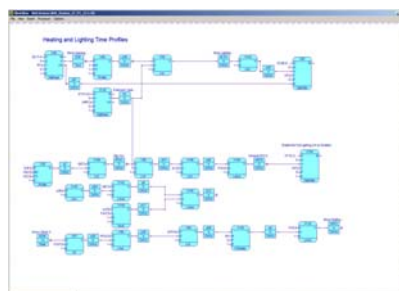


**ZIP**, as an example, provides high speed IO control and monitoring over a dedicated RS485 network. Manufactured in the UK by North Building Technologies, Tyrrell Systems Ltd are able to supply **ZIP** as part of the overall Communicator offering. **ZIP** is available for connection of up to 16 I/O modules per port, including small controllers, doors access modules and simple I/O.

**rIO** is Tyrrell Systems remote IO system. This operates high speed over Ethernet connections and is monitored and controlled from any Communicator across the network. Ideal for retrofit installations, utilising standard IT networks, **rIO** I/O modules offer a range inputs and outputs, with meter counters and on-board relays as required. A single **rIO** installation can support up to 32 I/O modules and thus a total of 512 inputs and 512 outputs.



**OBVEngine** completes the control capabilities as a high speed, supremely powerful and flexible process control engine.



A self-documenting editor provides a blank canvass for creating your own process logic just the way you want it.

## ■ The power to Supervise



*Web Services* are also included, straight from the box. With an on-board web-server, *eBMSWeb/Server*, or via our hosting service, you can remain in control of your systems wherever your location. Web

graphics for PDA , PC or automatic tables are all included.

With web graphics, complex and detailed site specific plans, plant schematics, incorporating any or all of the connected systems, can be created in your favourite web design studio or in our customised nVU development environment.

*DataLogger* offers many logging periods with automatic collection and reset. For 15 and 30 minute consumption periods, the logger is invaluable. Through *eBMSWeb/Server*, logs are all available for viewing from a remote location.



Using the central storage, *eBMSWeb/Server* offers alarm statistics on the most common alarms, the most recent alarms and the occurrences of alarms by group. A standard list



view of historical data is also available in addition to the statistical view.

The *cScope* user interface extension is available as an additional option for the LCD.



Whist the standard LCD allows for the configuration of items such as IP address, time and

date etc, *cScope* user pages can be configured to read and write to objects anywhere on the system; locally to any connected system or remotely to or via other Communicators. The LCD can also be configured with your Company name and prompt your customers with 'service due' warnings through the in-built maintenance programme.

## ■ The power to inform

Time Occurred	Device	Param	Conditions
21/11/2006 13:13:14	TEST	TEST	TEST

Alarms can be transmitted from a Communicator to any location across the connected network. *eBMSWeb/Client* is a thin client application, downloadable from Communicator *eBMSWeb/Server*. Installed directly from Communicator without the requirement for client-side dongles the application is costed per concurrent seat. *eBMSWeb/Server* monitors and stores incoming alarms, and passes them on, as required to *eBMSWeb/Client*, where they are kept in a detailed list and can be accepted and cleared. All clients are kept synchronised. The user can then have the option to view the details, or an associated web graphic, as required. Configuration options make it possible for this client application to be the complete control and monitoring solution for your users and includes it's own web browser.

*Alarm Manager* or *Alarm Viewer* are two of many alarm management applications on offer to complement Communicator, if a full client application is required.



*SMS* text messaging, *SMTP* email and *SNMP* are also available for the delivery of alarms to remote destinations. CSV logging of alarms, logs and other data is also available for enterprise level integration.

Our TextAlert extension offers web based management of SMS alarms, available from Communicator or via our TextAlert bureau service. Control multiple engineers for multiple sites across the entire year at the click of a button with complete on-call rota controls. You can even send messages to entire groups of engineers via the same web interface.

## ■ Do things you never thought were possible

With it's own process control and flexible connections through all the standard communications drivers, the design, delivery and maintenance of site-based control systems is faster, easier and more cost effective than ever before. This includes connectivity and control of packaged plant and other sub-systems too. This level of building system control and integration is simply not possible through the use of traditional HVAC / BMS systems.

## ■ Hardware options

- ▶ Communicator as a wall mounting self-contained unit, requiring 12Vdc at 2.5 Amps. The wall mounting Communicator has built in cable management complete with 20mm knock-outs.
- ▶ The unit comes complete with 4 fixed communications ports and an option for 4 additional ports.
- ▶ Auxiliary supplies are available for 5Vdc and 12Vdc
- ▶ Dimensions and mounting details are provided in a separate installation guide.

For a full list of drivers and connectivity please see our website – [www.tyrrellsystems.com](http://www.tyrrellsystems.com)

For information on training courses and dates, contact sales department.

For further information and prices, please contact:

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