

Single point control automation made *simple*.



WISH LIST

monitor and control key points
in the process

✓ reduce operating costs

✓ use my current PC or PDA

✓ NO programming

✓ do it MYSELF with NO formal
training

SimLink® from SimPro Controls



Need to **GET A HANDLE**
on your operating costs?

Wish you could **DO IT YOURSELF**, without the
services of a high-priced control engineer?

Wish you could **TAKE CONTROL** of your process, without
the need for a cumbersome, complex, or expensive system?

Take control of your process

Simply

If you manually control your process now, or if it feels like you have no control over it or your operating costs, you can take control of both using the SimLink system. SimLink operates on a very simple principle — do one thing, and do it well. The system simply monitors one parameter in your process such as temperature or tank level, and turns a single actuated valve (electric or pneumatic) on or off based on what that parameter is doing. That's all. Control this point with one SimLink controller, that one with another. It literally is that simple.

SimLink allows you to control as many of these single-loop points in your system as you need. We know what you're thinking — the more points, the more complex the system. Not with SimLink. Remember, each SimLink controller only looks at one set of parameters, controls only one actuated valve. Regardless of the number of controllers in your system, each of them is doing one thing. No complex relationships. No inter-dependencies of measured parameters versus control states. No detailed programming of any kind. No control engineer required.

Flexibly

The SimLink controller operates on input power between 85 VAC and 264 VAC. Two outputs provide 5 A maximum loads at the same voltage as the input power. A third comparable auxiliary output is available to indicate an alarm condition. The SimLink-SC controller can be set up to detect:

- two voltage inputs from devices such as limit switches
- 4-20 mA current loop input from flowmeters or pressure sensors
- type J or K thermocouple to detect temperature over a 0-300°C range

In addition, the controller accepts potentiometer, 4-20 mA, or variable voltage actuator position feedback for proportional control of valve position.

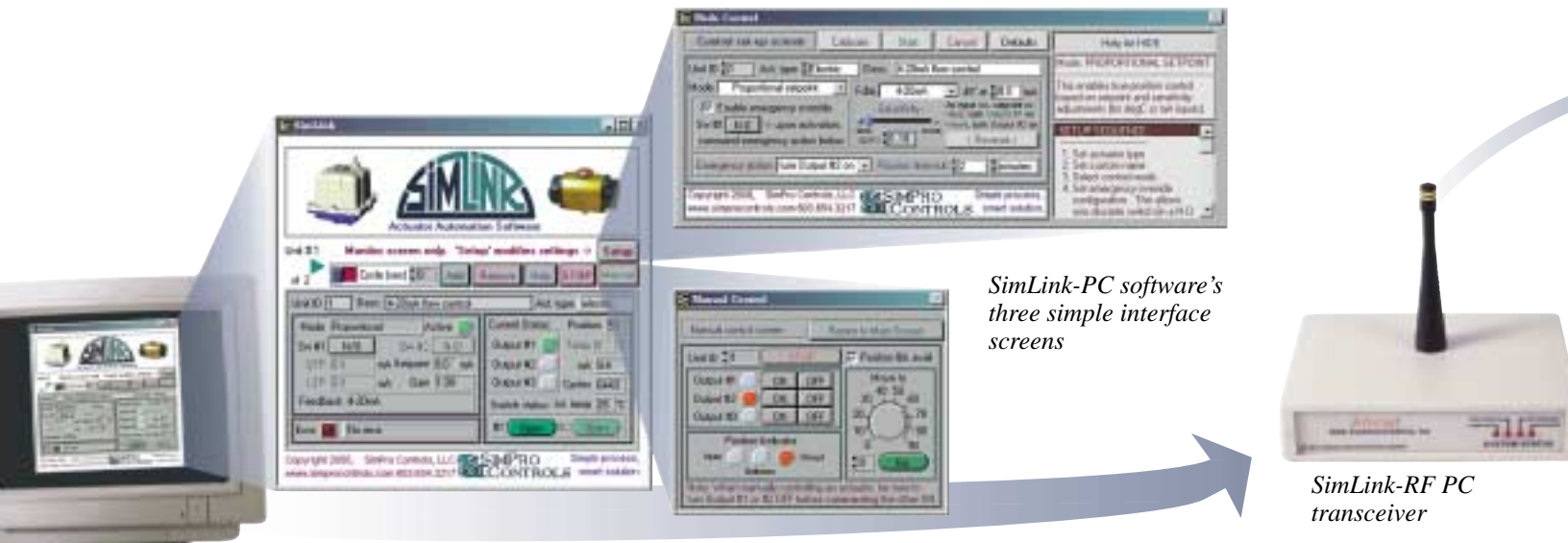
The SimLink controller is both functional and rugged enough for demanding environments. The clear polyurethane cover provides at-a-glance confirmation of proper network connectivity, communication activity, current output drive status, and erroneous conditions.

The controller can be screwed to an adjacent wall, or can be bracket-mounted. Since the enclosure is NEMA-4x rated, there are no additional mounting or enclosure requirements. Simply mount the base, pull the wires through the desired conduit entries, strip off the insulation, and snap them into the proper thumb-depressible terminal block connector locations on the cover. Done.

Control it from your PC

Let the SimLink software control it — with **NO** detailed programming

SimLink doesn't require racks of complex control system hardware, just an ordinary PC running the SimLink software under Windows (and the PC doesn't have to be the latest or greatest, either). You tell each individual SimLink controller what you want it to do using simple pull down menus and fill-in fields, in plain English. You can give each controller an actual name that identifies it by location or function. In a matter of seconds, you can set up each controller. In the off chance you need it, we've provided on-screen, step-by-step setup help. Once setup is complete, the SimLink software communicates the setup information to each of the SimLink controllers, allowing them to then run autonomously. You can monitor each controller's status from the PC if you wish, and can change each controller's operating parameters at any



*SimLink-PC software's
three simple interface
screens*

*SimLink-RF PC
transceiver*

YOU CAN.

With the SimLink® single point control automation system from SimPro Controls.

time. Of course, alarm conditions and emergency actions can be defined for each controller, so process problems on your plant floor won't go unnoticed while in the office.

Customize the communications for *your* application

Cabling costs can be a significant reason to prevent implementing control automation. SimLink addresses this issue by providing modular communication options between the PC and the SimLink controller(s). For short runs where cabling costs wouldn't be a major factor, run cable. For longer distances, use the optional RF wireless communications link. All communication is conducted using the industry standard RS485 protocol.

Up to 255 SimLink controllers can be connected to a host PC using any combination of hard-wired or wireless communications. At the PC, only a single PC wireless transceiver is required, regardless of the number of field wireless transceivers connected to strings of controllers. To connect the PC to both multiple wireless links and nearby hard-wired strings, a standard RS485 hub can be used. Regardless of how a string of controllers is ultimately connected to the PC, within every string, each controller can be daisy-chained to the next using twisted-pair cables. A single traditional RS485 loop can also be configured with drops to each controller. This communications scheme provides the maximum flexibility and lowest possible cost of interconnection, and allows for future communication options.

Use your PDA for non-intrusive control

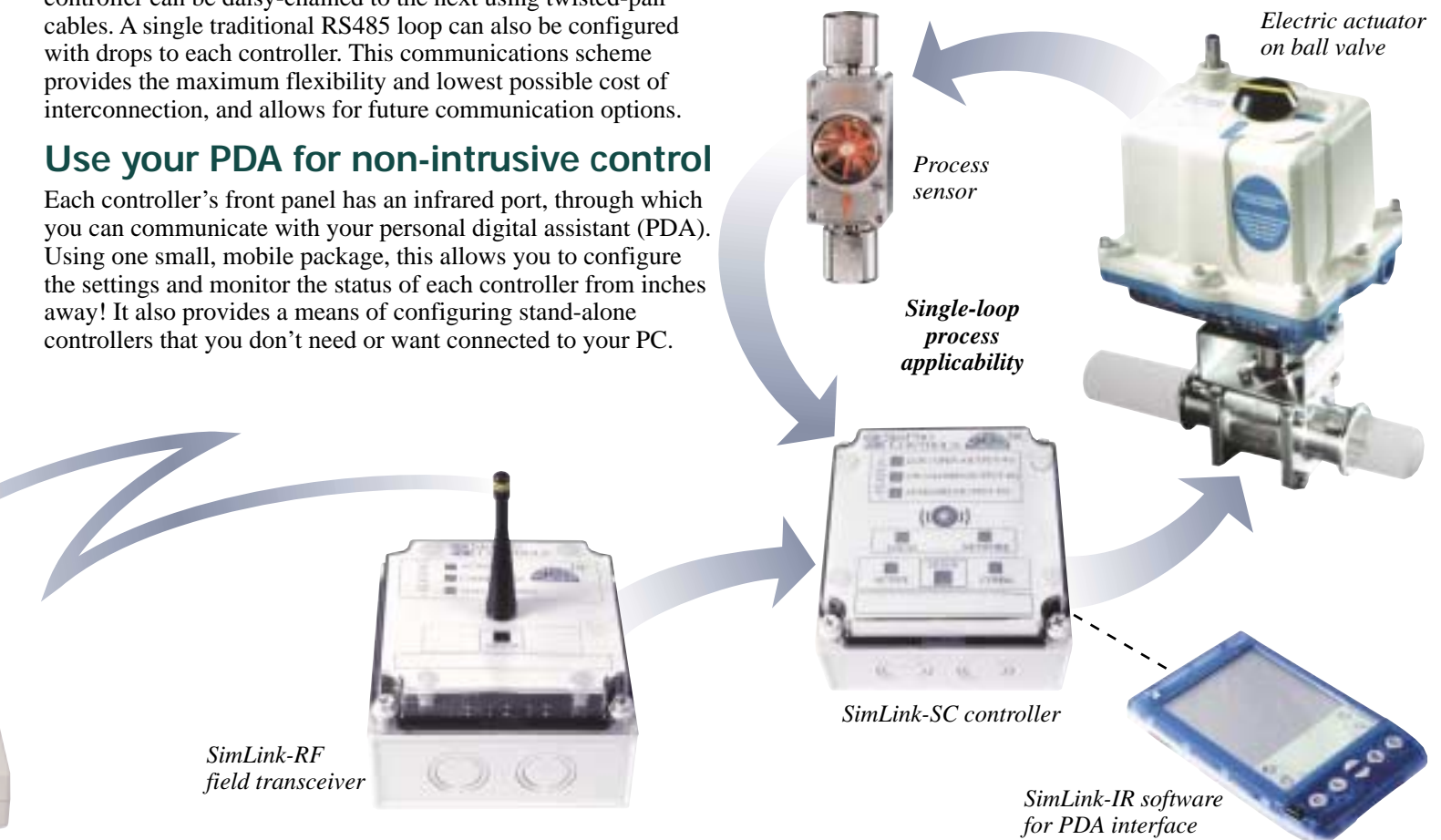
Each controller's front panel has an infrared port, through which you can communicate with your personal digital assistant (PDA). Using one small, mobile package, this allows you to configure the settings and monitor the status of each controller from inches away! It also provides a means of configuring stand-alone controllers that you don't need or want connected to your PC.

Finally, realize the benefits of control automation affordably!

Simplicity doesn't necessarily come at a price. We could go on about how the cost savings of automated control of your process will pay for the system in so many months. Instead, we'll state it plainly and simply — *the cost per available I/O point of the SimLink system is approximately 60-75% less than* that of any other system available (based on small to mid-sized applications).

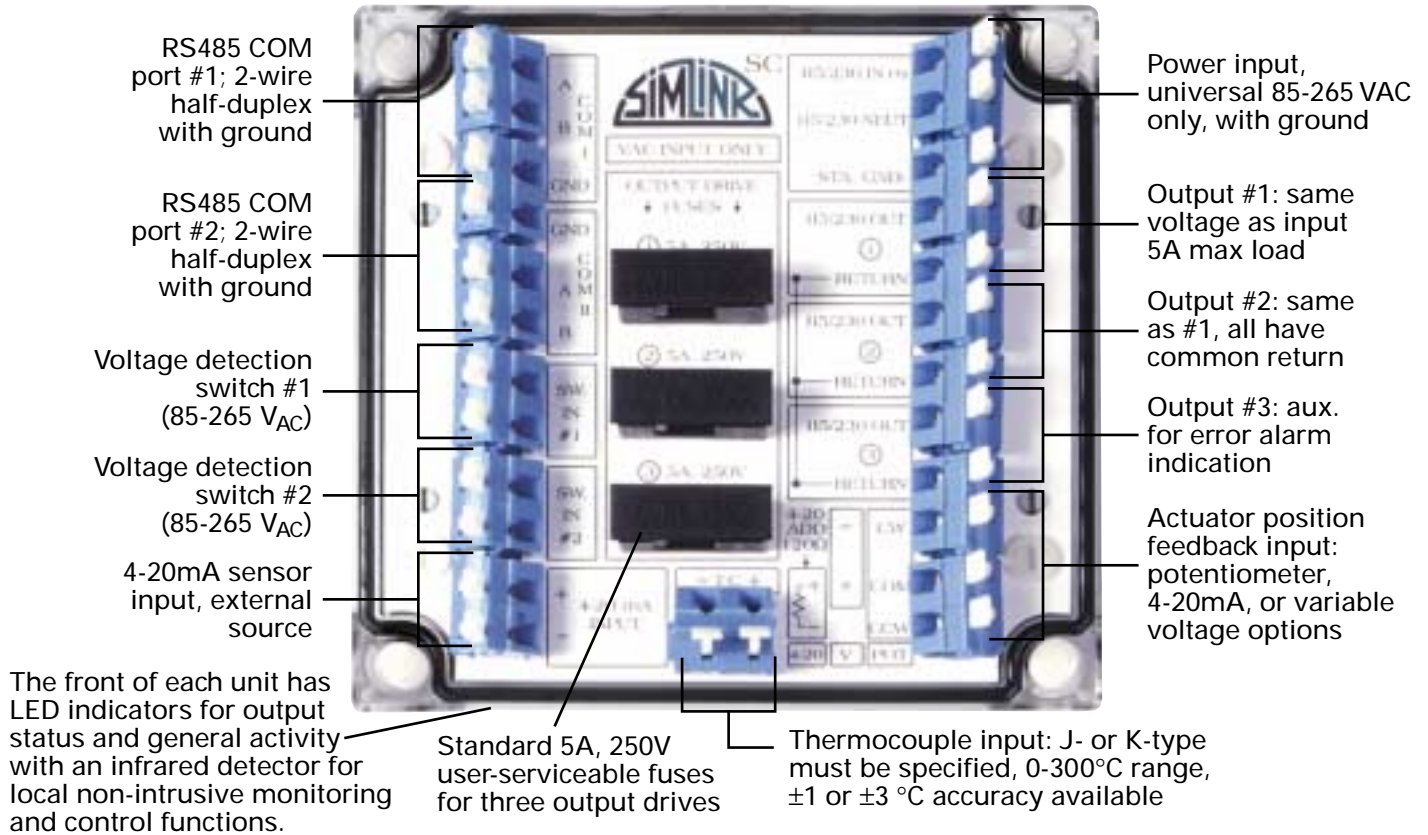
- Simple setup
- Single-minded controllers
- Flexible communications
- Lower costs per control point

SimLink from SimPro Controls.
Simple process, smart solution.



For more detailed information, and an interactive web demonstration, visit us at www.simprocontrols.com

Controller Features



Software Features

The SimLink PC software provides a very simple main screen that allows the status of each controller to be monitored manually, or all controllers to be sequentially scanned at a variable rate. The main screen provides indications of the controller ID, name, status of output drives, and any connected sensors.



To set up a controller, the setup button in the main screen opens the setup screen. Here, you can select the control mode and associated settings. An optional help list guides you through the

proper selection sequence for that particular actuator type. Currently, control mode options include:

- Switch On/Off — enabling on/off actuator control based on the presence or absence of voltage at the two switch inputs.
- Thermocouple On/Off — enabling on/off actuator control based on the upper and lower temperature trip points (in °C).
- 4-20 mA On/Off — enabling on/off actuator control based on the upper and lower 4-20 mA sensor trip points (in mA); allows monitoring a variety of 4-20 mA sensors (pressure, flow, etc.).
- Proportional Setpoint — allows true position control based on the setpoint and sensitivity adjustments, for either thermocouple or 4-20 mA inputs. This allows the position of the actuator/valve to be proportional to the measured input signal.
- Manual Control Only — allows manual commands from the PC to control the actuator/valve position.



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