LOOP-PRO™ PRODUCT SUITE

Easy to use PID diagnostic and optimisation technologies ideal for process control applications such as brewing.

- Performance Improvement Technology
- Maximising Your Process Optimization Initiatives
- Simplifying Process Optimization
- Enhancing Your Automation Investments

NHP Electrical Engineering Products Pty Ltd

Sales 1300 NHP NHP
Sales 0800 NHP NHP
nhp.com.au
nhp-nz.com
Any software can tune data that starts from a steady-state …

LOOP-PRO has proven a unique technology with exceptional application value and is the only tuner that can tune transitional and noisy data. LOOP-PRO is widely used across the process industries by leading manufacturers inclusive of the following industries.

- Oil & Gas
- Biotech & Pharma
- Power & Utilities
- Pulp & Paper
- Food & Beverage
LOOP PRO™ Product Suite

Exclusive to LOOP-PRO™ the NSS Modeling Innovation allows users to accurately tune both transitional and noisy process data.

The LOOP-PRO™ Product Suite is software technology used for effective and efficient loop optimisation. This revolutionary technology offers practitioners significant improvement over other PID tuning softwares and traditional trial-and-error methods.

In fact, LOOP-PRO™ is so easy to use that optimisation is possible in a matter of minutes. The power of this technology is found in its stability, accuracy, and unique non-steady state modeling capabilities.

The Difference: Non-Steady State Modeling Innovation

LOOP-PRO™’s unique Non-Steady State (NSS) Modeling Innovation is a patent-pending capability that is ideal for use with both continuous and batch processes.

The NSS Modeling Innovation eliminates the need for steady-state operation during testing. This results in faster tuning of PID controllers, less production downtime, and better use of production inputs. Users no longer need to worry about slowing production or sacrificing quality while improving performance.

LOOP-PRO™ can tackle the most challenging of processes and enable you to enhance plant profitability.

Equipped with patent-pending modeling capabilities, LOOP-PRO applies an intuitive and graphic procedure to the analysis and correction of complex process control challenges.

Most plant environments are dynamic and highly complex.

LOOP-PRO™ with NSS equips users with an equally dynamic and easy-to-use solution for tuning PID controllers and optimizing plant profitability.
LOOP PRO™ Product Suite

Your processes are dynamic and difficult.
Your optimisation technologies shouldn’t be.

01
ACCESS YOUR DATA

• Import data directly from your PLC, DCS or data historian using standard data formats such as .csv, .txt, .xls, etc.
• As an alternative, use LOOP-PRO’s integrated OPC client to access data in real-time directly from your facility’s OPC servers.
• Manipulate data with the help of standard and familiar spreadsheet functions.

02
SELECT PROCESS MODEL

• Choose the default Self-Regulating process model and leave it to LOOP-PRO’s built-in heuristics to ferret out any integrating characteristics.
• Choose the Integrating process models if you know you’re dealing with an integrating loop or if instructed by the software.
• Either way, have confidence knowing that LOOP-PRO is on the watch.

03
VALIDATE MODEL FIT

• Visually verify the “fit” of the process model and assure an accurate description of your process data.
• Zoom in on critical sections of data and see how process dynamics are accurately captured.
• As an option, adjust the model parameters – Gain, Time Constant, and Dead-Time – and tailor the response to suit your specific needs.

AWARD-WINNING VALUE

Chemical Processing Magazine bestowed the Vaaler Award on the LOOP-PRO™ Product Suite for dramatically improving the operations and economics of plants in the chemical industry.
**CHOOSE YOUR CONTROLLER**

- Select from LOOP-PRO’s comprehensive library of pre-configured industrial PID controllers.
- Reduce time and eliminate risk with automatic calculations of complex algorithms.
- If your PID controller is not listed, provide Control Station with the associated documentation and have the controller added within 24 hours at no charge.

**ADJUST FOR RESPONSIVENESS**

- Shift the slider bar left and right, and customize the responsiveness of your controller.
- View a graphic simulation of the controller’s response for P-Only, PI, PID, and PID with Filter options.
- Choose tuning parameters that match your unique control objective.

**REVIEW YOUR KPIS**

- See how the performance of LOOP-PRO’s proposed parameters compare to your original tuning parameters.
- Assess descriptive statistics and other Key Performance Indicators (KPIs) provided for your reference.
- Assure the stability of your process with easy-to-understand, color-coded alerts.

---

**AWARD-WINNING SIMPLICITY**

Readers of Control Engineering Magazine bestowed the Engineers’ Choice Award on the LOOP-PRO™ Product Suite highlighting the technology’s ease-of-use and practicality as a PID optimisation solution.
LOOP-PRO makes it easy to document all analysis performed while tuning PID controllers.

With customizable reports and an editable Notes section, users can log unique characteristics about a given process and record them for future reference.

Like LOOP-PRO itself, all reports capture graphic details and relevant statistics that are easy to understand. Among the information recorded are the following details:

- PID Controller
- Simulated PID Response
- Robustness & Stability Analysis
- Performance Statistics
- Model Fit(s)
- Model Parameters
- Data Properties
- Controller Scaling Values
LOOP PRO™ Product Suite
Control Station Part Number

<table>
<thead>
<tr>
<th>AB</th>
<th>LPT</th>
<th>S</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEM: Rockwell Automation (AB)</td>
<td>Product name: Loop-Pro Tuner (LPT)</td>
<td>Product type: Standard (S) Plus (P)</td>
<td>License type: Node (N) Floating Site (FS) Enterprise (E)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Work Station: Loop-Pro Tuner (Allen-Bradley edition)</td>
<td>ABLPTS-N</td>
<td>Perpetual node license for installation on and use from a single computer workstation. Supports all Rockwell Automation branded controllers. Maintenance and support provided for one (1) year from date of license issue.</td>
</tr>
<tr>
<td>Single Work Station: Loop-Pro Tuner Plus (Allen-Bradley edition)</td>
<td>ABLPTP-N</td>
<td>Perpetual node license for installation on and use from a single computer workstation. Supports all Rockwell Automation branded controllers. Includes advanced statistics package. Maintenance and support provided for one (1) year from date of license issue.</td>
</tr>
<tr>
<td>Site Licenses: Loop-Pro Tuner (Allen-Bradley edition)</td>
<td>ABLPTS-FS</td>
<td>Perpetual SITE license for installation on a shared network drive and accessed from computer workstations on the computer network at a particular SITE. Supports all Rockwell Automation branded controllers. The SITE License comes with unlimited amount of active users. Maintenance and support provided for one (1) year from date of license issue.</td>
</tr>
<tr>
<td>Site Licenses: Loop-Pro Tuner Plus (Allen-Bradley edition)</td>
<td>ABLPTP-FS</td>
<td>Perpetual SITE license for installation on a shared network drive and accessed from computer workstations on the computer network at a particular SITE. Supports all Rockwell Automation branded controllers in an Online environment, as well as, all other major PAC/PLC/DCS OEMs in an Offline environment and includes the advanced statistics package. This SITE License comes with an unlimited amount of active users. A SITE is defined as one physical location. Maintenance and support provided for (1) year from date of license issue.</td>
</tr>
<tr>
<td>Enterprise (Multi-Site) Licenses: Loop-Pro Enterprise License</td>
<td>CS-LPEN-A</td>
<td>Perpetual Enterprise Network Anchor License for installation on a company-wide network drive and accessed from any computer workstations that can access the company-wide network to check-out or check-in a license. Maintenance and support provided for one (1) year from date of license issue.</td>
</tr>
<tr>
<td>Enterprise (Multi-Site) Licenses: Loop-Pro Enterprise License (Allen-Bradley edition)</td>
<td>AB-LPTS-A</td>
<td>Perpetual Activation for Enterprise Network Licensee. Supports all Rockwell Automation-branded controllers in an Online and Offline environment. Maintenance and support provided for one (1) year from date of license issue.</td>
</tr>
<tr>
<td>Enterprise (Multi-Site) Licenses: Loop-Pro Enterprise License (Allen-Bradley edition)</td>
<td>AB-LPTP-A</td>
<td>Perpetual Activation for Enterprise Network Licensee. Supports all Rockwell Automation-branded controllers in an Online environment, as well as, all other major PAC/PLC/DCS OEMs in an Offline environment and includes the advanced statistics package. Maintenance and support provided for one (1) year from date of license issue.</td>
</tr>
</tbody>
</table>

Maintenance and support program: Maintenance and support following first twelve (12) months
Extended 1 year (18% off product list): i.e. product list price x .18 x 1 (year)
Extended 2 years (16% off product list): i.e. product list price x .16 x 2 (years)
Extended 3 years (13% off product list): i.e. product list price x .13 x 3 (years)

Example part number written: ABLPTS-N
GST not included
AUSTRALIA

nhp.com.au
SALES 1300 NHP NHP
FAX 1300 NHP FAX

VICTORIA
Melbourne
43-67 River Street
Richmond
VIC 3121
Tel +61 3 9429 2999

Laverton
104-106
William Angliss Drive
Laverton North
VIC 3026
Tel +61 3 9368 2901

Albury / Wodonga
847 Ramsden Drive
Albury
NSW 2640
Tel +61 2 6049 0600
Fax +61 3 6025 0592

Dandenong
Unit 1/80 Monash Drive
Dandenong South
VIC 3175
Tel +61 3 8773 6400
Fax 1300 647 329

NEW SOUTH WALES
Sydney
30-34 Day Street North
Silverwater
NSW 2128
Tel +61 2 9748 3444

Newcastle
575 Maitland Road
Mayfield West
NSW 2304
Tel +61 2 4960 2220
Fax +61 2 4960 2203

Wollongong
Unit 3
1 Resolution Drive
Unanderra
NSW 2526
Tel 1300 647 647
Fax 1300 647 329

ACT
Canberra
187 Gladstone Street
Fyshwick
ACT 2609
Tel +61 2 6280 9888
Fax +61 2 6280 9588

WESTERN AUSTRALIA
Perth
38 Belmont Ave
Rivervale
WA 6103
Tel +61 8 9277 1777

TASMANIA
Hobart
208 Lampton Ave
Derwent Park
TAS 7009
Tel +61 3 6228 9575
Fax +61 3 6228 9757

Launceston
Unit 3
13-17 Merino Street
Kings Meadows
TAS 7249
Tel +61 3 6345 2600
Fax +61 3 6344 6324

QUEENSLAND
Brisbane
16 Riverview Place
Murarrie
QLD 4172
Tel +61 7 3909 4999

Townsville
5 Leyland Street
Garbutt
QLD 4814
Tel +61 7 4779 0700
Fax +61 7 4775 1457

Rockhampton
1 Lawson Street
Parkhurst
QLD 4702
Tel +61 7 4927 2277
Fax +61 7 4922 2947

Toowoomba
Cnr Carroll Street and
Struan Court
QLD 4350
Tel +61 7 4634 4799
Fax +61 7 4633 1796

Cairns
Unit 2
1 Bramp Close
Portsmith
QLD 4870
Tel +61 7 4035 6888
Fax +61 7 4035 6999

SOUTH AUSTRALIA
Adelaide
36-38 Croydon Road
Keswick
SA 5035
Tel +61 8 8297 9055

NORTHERN TERRITORY
Darwin
3 Steele Street
Winnellie
NT 0820
Tel +61 8 8947 2666
Fax +61 8 8947 2049

NEW ZEALAND

nhp-nz.com
SALES 0800 NHP NHP
FAX 0800 FAX NHP

PO Box 62-009
Sylvia Park
Auckland 1644
New Zealand

Auckland
118b Carbine Road
Mt Wellington 1060

Hamilton
78 Rostrevor Street
Hamilton 3204

Napier
126 Taradale Road
Onekawa 4110

New Plymouth
2 Dean Place
Waiwhakaiho 4312

Wellington
Unit B4, 59 Marsden Street
Melling
Lower Hutt 5010

Christchurch
27 Iversen Terrace
Waltham 8011

Dunedin
30 Fox Street
South Dunedin 9012