

**Pro-face**  
for the best interface

# GP4000 SERIES



<http://www.profaceamerica.com/>

# The New Pro-

## Introducing the GP4000 SERIES

### Easy to Identify, Easy to Use

Operators can easily monitor machine conditions and the plant floor situation in real time using realistic 3D buttons, lamps, and gauges.

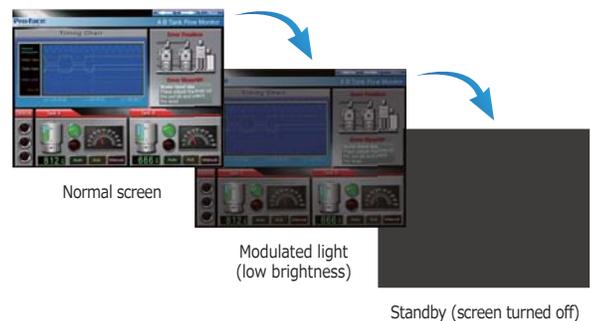


Features 65,536-color  
TFT standard

### Energy Saving

The GP4000 Series contributes to reducing on-site power consumption in a variety of ways including an on-board LED backlight in all models, and an optional dimmer setting used to decrease and eventually stand-by the display after being idle for a set period of time.

The display unit automatically cuts down on wasteful power consumption!



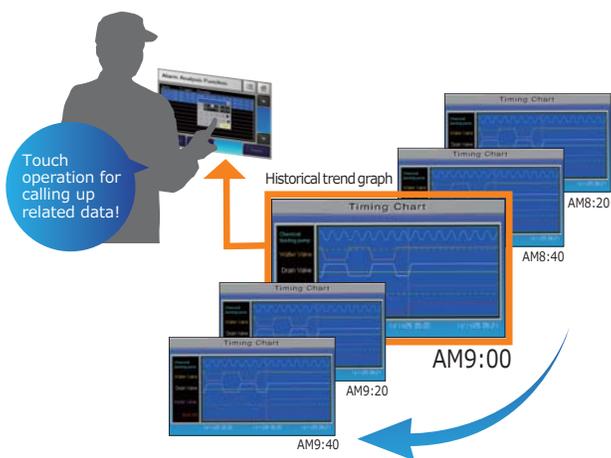
Standard equipped with LED  
backlight LCD +  
optional Dimmer setting

# face Standard



## Quick On-site Recovery

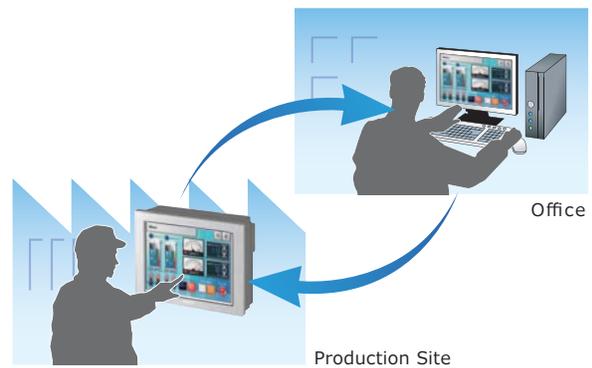
Simply touch the alarm message to check the relevant data in chronological sequence.



Alarm Analysis function

## Remote Monitoring

The GP-Viewer EX software provides various remote monitoring functions, such as checking the screen of the GP located on a production site from a remote office.



Ethernet I/P featured as standard

Lineup

Standard Model

**12.1-inch** AC 100-240V DC 24V  
Standard Model

**GP-4601T / GP-4603T**  
(Isolated MPI Communication Port)



**10.4-inch** AC 100-240V DC 24V  
Standard Model

**GP-4501T / GP-4503T**  
(Isolated MPI Communication Port)



Display (Resolution)	65,536-color TFT (800 x 600 pixels)	65,536-color TFT (640 x 480 pixels)
Brightness Control	16-level Brightness	
Touch Panel Type	Analog or Matrix (Supports 2 point touch)	
Memory	FEPROM 32MB (Application Memory), 320KB (Backup for HMI), 64KB (Backup for Control)	
Ethernet	x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)	
SIO	COM x 2	
SD Card Slot	x 1	
USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1	
Replaceable Battery	Yes	



HMI Screen Editor & Logic Programming Software

Use with the entire Pro-Face line-up through optimized drag and drop operation, and a abundant variety of program-free connection methods to a wide range of devices.



W Model

**10.4-inch** DC 24V  
W Model

**GP-4501TW**



Display (Resolution)	65,536-color TFT (640 x 480 pixels)	
Brightness Control	8-level Brightness	
Touch Panel Type	Analog	
Memory	FEPROM 16MB (Application Memory), 128KB (Backup for HMI)	
Ethernet	x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)	
SIO	COM x 2	
SD Card Slot	x 1	
USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1	
Replaceable Battery	Yes	

7.5-inch  
Standard Model

DC 24V

GP-4401T



65,536-color TFT (640 x 480 pixels)

5.7-inch  
Standard Model

DC 24V

GP-4301T / GP-4303T  
(Isolated MPI  
Communication Port)



65,536-color TFT (320 x 240 pixels)

3.5-inch  
Standard Model

DC 24V

GP-4201T / GP-4203T  
(Isolated MPI  
Communication Port)



16-level Brightness

Analog

FEPROM 32MB (Application Memory), 320KB (Backup for HMI),  
64KB (Backup for Control)

FEPROM 16MB (Application Memory), 320KB (Backup for HMI), 64KB (Backup for Control)

x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)

COM x2

COM x1

x 1

No

USB Type-A (2.0) x 1, USB mini-B (2.0) x 1

Yes

When replacement is required, contact your Pro-face sales.

7.0-inch  
W Model

DC 24V

GP-4401WW



65,536-color TFT (800x 480 pixels)

5.7-inch  
W Model

DC 24V

GP-4301TW



65,536-color TFT (320 x 240 pixels)

3.5-inch  
W Model

DC 24V

GP-4201TW



8-level Brightness

Analog

FEPROM 16MB (Application Memory), 128KB (Backup for HMI)

FEPROM 8MB (Application Memory), 128KB (Backup for HMI)

x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)

No

COM x 2

x1

No

USB Type-A (2.0) x 1, USB mini-B (2.0) x 1

Contact your Pro-face sales representative, when a replacement needed.

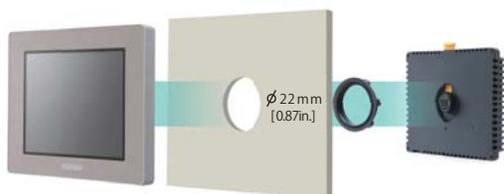
Lineup

Modular Type Compact Type	5.7-inch <small>DC 24V</small> Modular Type	3.5-inch <small>DC 24V</small> Modular Type	3.4-inch <small>DC 24V</small> Compact Type
	GP-4301TM	GP-4201TM	GP-4100
Display (Resolution)	65,536-color TFT (320 x 240 pixels)		Monochrome LCD (200 x 80 pixels)
Brightness Control	16-level Brightness		
Touch Panel Type	Analog		
Memory	FEPROM 8MB (Application Memory), Equivalent to 128kb *1 (Backup for HMI)		FEPROM 2.2MB (Application Memory), Equivalent to 128kb *1 (Backup for HMI)
Ethernet	x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)		x1 (IEEE802.3u,10BASE-T/100BASE-TX) *2
SIO	COM x1		COM x1 *3
SD Card Slot	No		
USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1		
Replaceable Battery	Contact your Pro-face sales representative, when a replacement needed.		

\*1: Application Memory can provide 128KB for Data Backup. For supported features, please refer to GP-Pro EX Reference Manual. \*2: GP-4104 Only \*3: Excluding GP-4104

Modular type for easy mounting

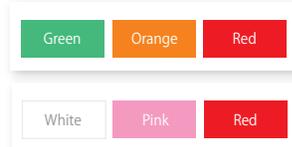
GP4201TM and GP4301TM only



Compact display for various applications

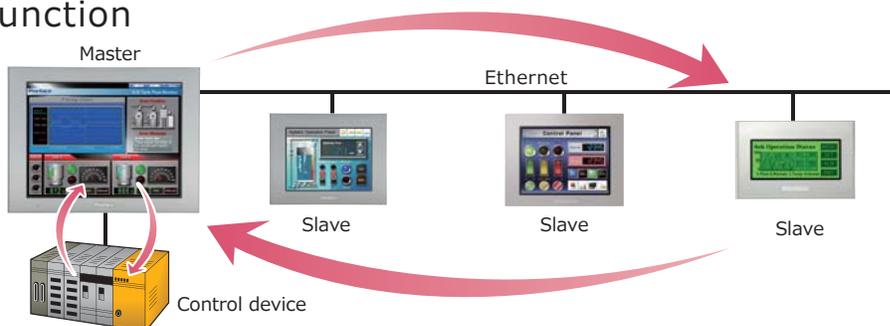


※Select between two patterns of 3-color switchable backlights



Ethernet Multi-Link function

The Ethernet Multi-Link function allows you to easily add a GP as a sub-display to the facility without changing any settings of the control device.



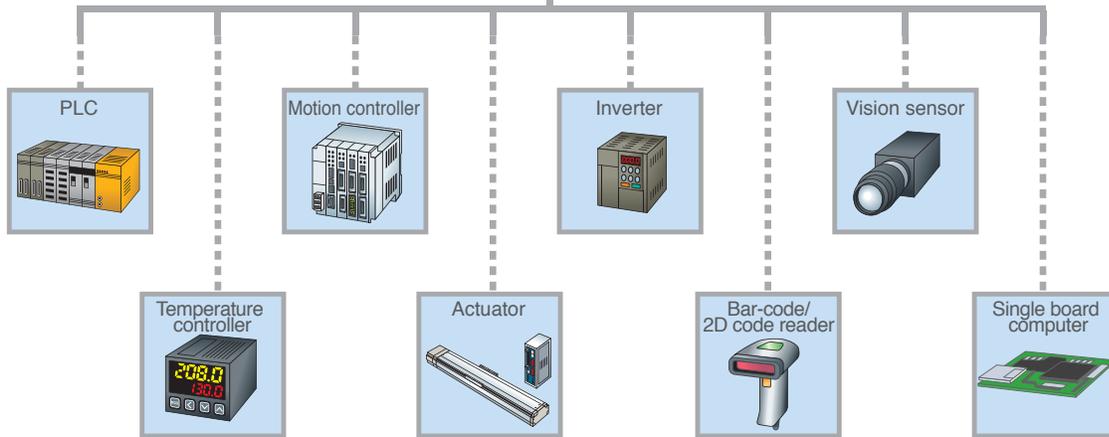
More functions for more applications

An extensive driver list allows you to connect various devices

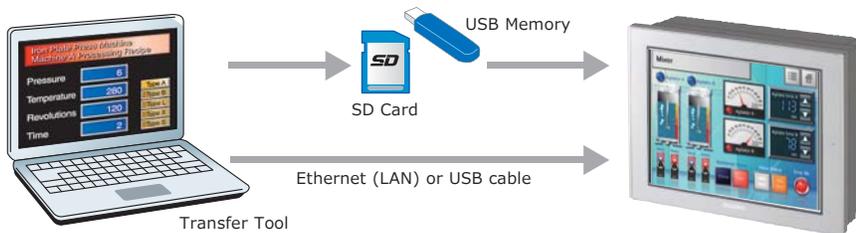
The GP4000's ability to connect to various devices and support a wide range of drivers, allows simultaneous communications between multiple protocols.



One HMI can "talk to" your preferred PLC, a vision system, and a motion controller!



Screen data can be updated by using the data transfer tool, even without a software license.



The data transfer tool can be downloaded for free from the Web  
<http://www.profaceamerica.com/>

Conforms to overseas standards for hassle-free export and use with overseas equipment



IP65f Front Enclosure  
 NEMA#250 TYPE 4X/13\*

\*Planned to acquire UL/cUL Hazardous Locations and ATEX by 2012

The GP4000 series comes equipped with a replaceable primary battery, which helps the HMI maintain an ambient operating temperature of 0 to 55°C [32 to 131F°] even in adverse environments.

- GP-4601T, GP-4603T
- GP-4501T, GP-4503T
- GP-4401T, GP-4301T
- GP-4303T



One development software for both dedicated and open windows-based operator interfaces.



Individual functions can be selected at a glance using these icons.

Created screens can be visually selected using the thumbnail view.

A screen call menu can be displayed. If you activate the screen call function while creating a screen, the called screen is moved below, and displayed as a thumbnail.

The editing screen can be customized to give one click access to frequently used

Various graphs such as trend graphs can be placed on the screen.

Your search can be narrowed to select the best parts suited for the application.

Frequently-used functions can be assigned to function keys, making mouse-free editing possible.

Creating great HMI applications doesn't have to be hard.  
Intuitive Self-Guiding HMI Software

## Four Easy Steps

### 1. Set up communications

- Choose and set up PLC and third-party devices effortlessly
- System settings are logically arranged and easy to find

### 2. Design application/screens

- Drag-and-drop addressing, parts and colors
- Efficient features to reduce development time
- Create consistent look and feel using the user-defined templates

### 3. Simulate and test

- Verify before you travel
- Debug your application without hardware
- Test without downloading

### 4. Download/transfer

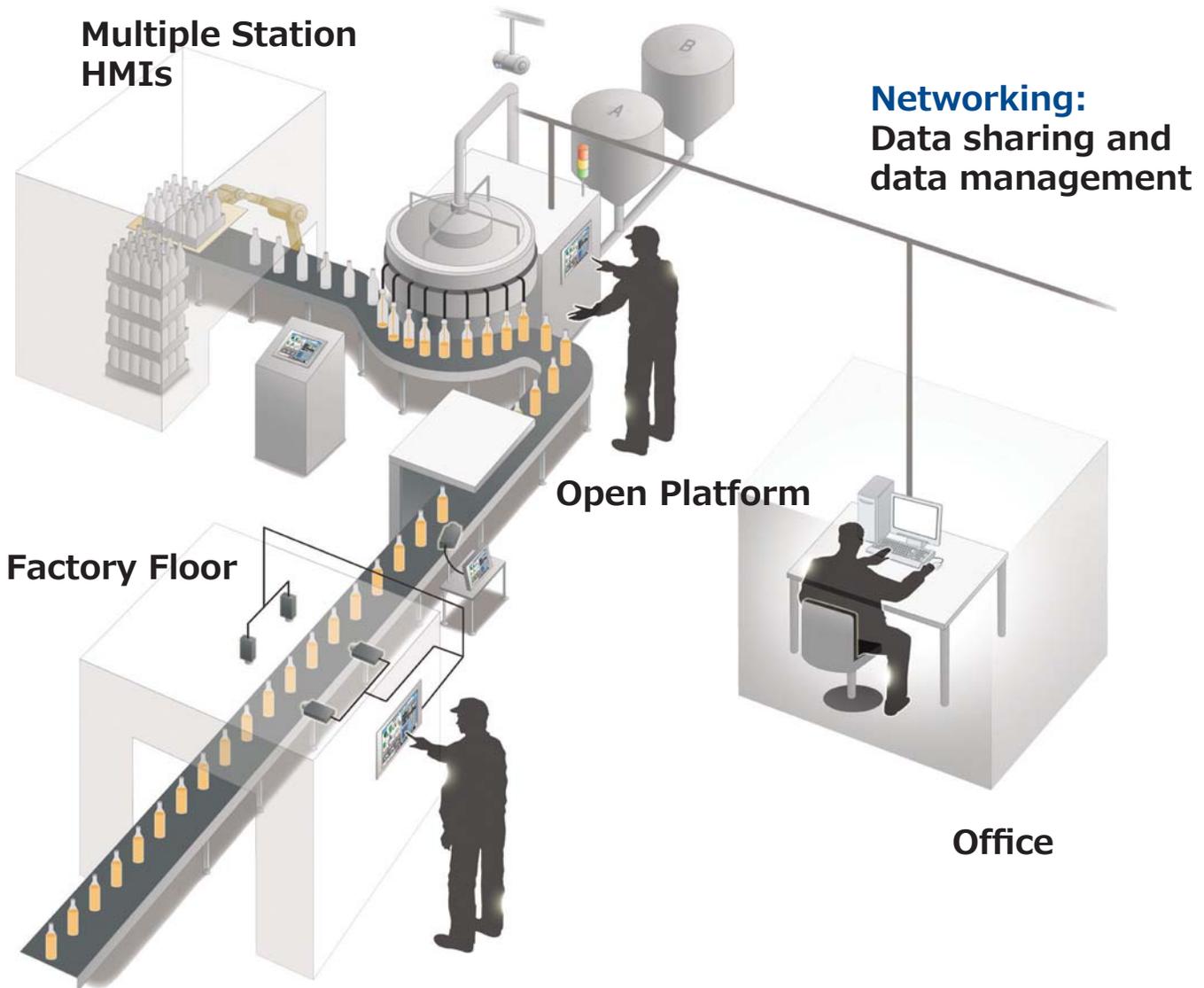
- Tamper -proof HMI application – password-protected project source

# Simple to Complex Visualization Applications



## Visualization Development Solutions

### One Development Software



## Outstanding Support

- ✓ **No Phone Bouncing**
- ✓ **No Contracts**
- ✓ **No Hassles**



### Outstanding Technical Services

Pro-face is committed to delivering excellent technical support whether you are local or abroad. We have trained specialists both in-house and in the field.

#### **Better than Basic Support Services:**

- Product level Technical Support
- Component Selection recommendations
- Compatibility testing to customer hardware
- Product Migration Compatibility Assistance
- Pros and Cons of IPC vs Dedicated HMI

#### **Proof-of-Concept Assistance:**

- Perform project setup and debug
- HMI Application Project Analysis
- Application Conversion assistance for smooth transition to Pro-face

Speak with a live Support Engineer who will solve your problem within 24 hours 95% of the time, or for those challenging issues in 72 hours 99% of the time without an expensive service contract.



### We Have Your Answers

**Free** Our Technical Support web site contains a vast resource of product and application knowledge.

#### **Everything you expect plus:**

- Sample HMI applications and more graphics
- Frequently asked questions and application notes
- Product certifications and migration guides
- New and enhanced communication drivers



## Training That Makes A Difference



### Superb Training

HMI is not just about buttons and lamps. Save hours of struggling trying to learn how to take advantage of advanced features like recipes, trending and video playback/recording.

#### Let Our Experts Help You:

- Our staff includes highly trained and field experienced solution engineers
- We use working hardware and software
- We use full agenda courses for maximum benefit
- We teach from beginner to advanced levels
- We help as you progress creating your HMI solution
- We show you how to network your factory floor information with your Enterprise business system

#### Flexible Training Options\*:

- √ Regional hands-on training
- √ On-site classroom training
- √ Pro-face sponsored webinars
- √ Remote access one-on-one training
- √ **Free** self-paced online training

\* Some training provided at a modest price.

Pro-face training options and tools not only save time, but also shows you how to achieve maximum operator interface performance.



### We're Here When You Need Us

Pro-face **Free** Learning Center is available 24/7. If you are a beginner developing HMI applications you will find this resource invaluable. Advanced users can take advantage of our HMI time saving tips and tricks.

- Topic based quick start guides
- Self-study textbook tutorials
- Video and podcast-based training modules
- Advanced tips/tricks techniques collection



**Pro-face**  
for the best interface



We are always striving to connect customers to their clients, processes, and people through high quality products, and service and support from around the world.

We provide our best possible support for each and every individual customer.

## Our Environmental Policy and Compliance with the RoHS Directive

Pro-face has taken significant steps to meet increasingly stringent requirements for environmental preservation and has sought to comply with the RoHS Directive by adopting measures to eliminate specified harmful substances from existing products and products to be manufactured and sold beginning in 2006. For details, please refer to our web site or contact our sales office in your country.



# www.profaceamerica.com

Global Network and Global Support

## ⚠ WARNING

### HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE

Before operating any of these products, be sure to read all related manuals thoroughly.

Failure to follow these instructions can result in death or serious injury, unintended equipment damage.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
- Actual user screens may differ from the screens shown here.
- Electric equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Digital for any consequences arising out of the use of this material.
- All product names used in this catalog are the registered trademarks or trademarks of their respective companies.
- All information contained in this catalog is subject to change without notice.

#### Global Head Office

Digital Electronics Corporation  
Osaka, JAPAN  
Tel: +81 (0)6 6613 3116  
Fax: +81 (0)6 6613 5888  
<http://www.pro-face.com>  
[info@pro-face.com](mailto:info@pro-face.com)

#### Australia and New Zealand

Pro-face Australia  
Mt. Waverley, AUSTRALIA  
Tel: +61 (0)3 9550 7395  
Fax: +61 (0)3 9550 7390  
<http://www.pro-face.com.au> <http://www.pro-face.co.nz>  
[pfau@pro-face.com](mailto:pfau@pro-face.com)

#### China

Pro-face China International Trading Co., Ltd.  
Shanghai, P. R. CHINA  
Tel: +86 (0)21 6361 5175  
Fax: +86 (0)21 6361 5176  
<http://www.proface.com.cn>  
[proface@proface.com.cn](mailto:proface@proface.com.cn)

#### India

Pro-face India  
Bangalore, INDIA  
Tel: +91 80 4333 3540/3541  
Fax: +91 80 4333 3222  
<http://www.proface.com.in>  
[sales.proface@proface.co.in](mailto:sales.proface@proface.co.in)

#### North/South American Head Office

Pro-face America, Inc.  
Ann Arbor, MI U.S.A.  
Tel: +1 734 477 0600  
Fax: +1 734 864 7347  
<http://www.profaceamerica.com>  
[sales.info@profaceamerica.com](mailto:sales.info@profaceamerica.com)

#### Singapore

Pro-face Singapore  
TechPoint, Singapore  
Tel: +65-6832-5533  
Fax: +65-6415-1605  
<http://www.proface.sg>  
[info@proface.sg](mailto:info@proface.sg)

#### South-East Asia Pacific

Pro-face South-East Asia Pacific Co., Ltd.  
Bangkok, THAILAND  
Tel: +66 (0)2 617 5678  
Fax: +66 (0)2 617 5688  
<http://www.proface.co.th>  
[support@proface.co.th](mailto:support@proface.co.th)

#### South Korea

Pro-face Korea Co., Ltd.  
Seoul, SOUTH KOREA  
Tel: +82 (0)2 2630 9850  
Fax: +82 (0)2 2630 9800  
<http://www.proface.co.kr>  
[proface@proface.co.kr](mailto:proface@proface.co.kr)

#### Taiwan

Pro-face Taiwan Co., Ltd.  
Taipei, TAIWAN  
Tel: +886 (0)2 2657 1121  
Fax: +886 (0)2 2657 1021  
<http://www.proface.com.tw>  
[proface@proface.com.tw](mailto:proface@proface.com.tw)

#### European Head Office

Pro-face Europe B.V.  
Hoofddorp, THE NETHERLANDS  
Tel: +31 (0)23 55 44 099  
Fax: +31 (0)23 55 44 090  
<http://www.proface.eu>  
[info@proface.eu](mailto:info@proface.eu)

#### Austria

Pro-face Europe B.V. (Austria Office)  
Hagenberg, AUSTRIA  
Tel: +43 7236 3343 620  
FAX: +43 7236 3343 629  
<http://www.proface.at>  
[info@proface.at](mailto:info@proface.at)

#### France

Pro-face France S.A.S.  
Mity-Mory, FRANCE  
Tel: +33 (0)1 60 21 22 91  
Fax: +33 (0)1 60 21 22 92  
<http://www.proface.fr>  
[info@proface.fr](mailto:info@proface.fr)

#### Germany

Pro-face Deutschland GmbH  
Sölingen, GERMANY  
Tel: +49 (0)212 258 260  
Fax: +49 (0)212 258 2640  
<http://www.pro-face.de>  
[info@pro-face.de](mailto:info@pro-face.de)

#### Italy

Pro-face Italia S.p.a.  
Bovisio Masciago (Milano), ITALY  
Tel: +39 (0)362 59 96 1  
Fax: +39 (0)362 59 96 99  
<http://www.proface.it>  
[info@proface.it](mailto:info@proface.it)

#### Northern Europe

Pro-face Northern Europe ApS  
Roskilde, DENMARK  
Tel: +45 70 22 01 22  
Fax: +45 70 22 01 33  
<http://www.proface.dk>  
[info@proface.dk](mailto:info@proface.dk)

#### Poland

Pro-face Europe B.V. (Warszawa Office)  
Warszawa, POLAND  
Tel: +48 (22) 465 66 62  
Fax: +48 (22) 465 66 67  
<http://www.proface.pl>  
[info@proface.pl](mailto:info@proface.pl)

#### Russia

Pro-face Europe B.V. (Russia Office)  
Saint-Petersburg, RUSSIA  
Tel: +007 (812) 336 47 06  
Fax: +007 (812) 336 47 18  
<http://www.pro-face.ru>  
[info@pro-face.ru](mailto:info@pro-face.ru)

#### Spain and Portugal

Pro-face España  
Cardedeu (Barcelona), SPAIN  
Tel: +34 (0)93 846 07 45  
Fax: +34 (0)93 846 48 68  
<http://www.proface.es>  
[info@proface.es](mailto:info@proface.es)

#### Sweden

Pro-face Sweden AB  
Löddeköpinge (Malmö), SWEDEN  
Tel: +46 46 540 90 70  
Fax: +46 46 71 27 90  
<http://www.proface.se>  
[info@proface.se](mailto:info@proface.se)

#### Switzerland

Pro-face Schweiz GmbH  
Regensdorf, SWITZERLAND  
Tel: +41 (0)43 343 7272  
Fax: +41 (0)43 343 7279  
<http://www.proface.ch>  
[info@proface.ch](mailto:info@proface.ch)

#### United Kingdom

Pro-face UK Ltd  
Coventry, ENGLAND  
Tel: +44 (0)2476 511288  
Fax: +44 (0)2476 511499  
<http://www.proface.co.uk>  
[info@proface.co.uk](mailto:info@proface.co.uk)