CIMREX operator terminals

Offer the desirable combination of powerful performance and user-friendliness, paired with the right functionality.

The right functionality

- Continuous development through customer involvement
- Easy programming
- Compatible with most PLC's and controllers
- Simpler networking – RS232, 422, 485, Ethernet, Can open, Modbus etc.
- 14 models to choose from 2 line +keyboard to full graphic touch screens
- Proven in all industries
- Industrially designed for tough demands CE & UL approvals

The CIMREX brand represents more than twenty years of cutting edge operator terminal technology that satisfies customers all over the world.

PROGRAMMING – So easy, it's almost like magic

With the CIMREX PROG programming tool you can easily bring your ideas to life.

More than 70 drivers and protocols are available free of charge,

downloadable from the Internet directly into the CIMREX PROG programming tool for most PLC's, servos and inverters:

Siemens, Allen-Bradley, Matsushita, Omron, Modicon, Toshiba, SEW Eurodrive, GE Fanuc Nais Mitsubishi, Control Logix, Fatek, Jetter, Delta and more.

Dual drivers with data exchange

An operator terminal can serve as a gateway for passing data from one connected controller to a second controller. Likewise, it is possible to exchange data between controllers connected to different operator terminals in a network, and even between controllers of different brands.

Powerful recipe handling

With CIMREX operator terminals, recipes can mix digital and analog signals. There are no requirements as to the order of the signals. Large sets of parameters can be reused, which saves development time.

The powerful recipe directories ensure a good overview - and can be used to store controller data, thus conserving capacity in the controller.

Recipes can be created and edited from the terminal, the controller system or from a PC. Thanks to the networking functionality, existing recipes can be uploaded and edited, and then returned via a network.

Access to the controller through the terminal

Passthrough mode enables, among other things, programming or troubleshooting of the controller with a PC connected to the terminal.

Transparent mode enables parallel communication with the controller for a PC or a master operator system, for example, when connected to the terminal's second port – without interrupting the terminal's ordinary operation.
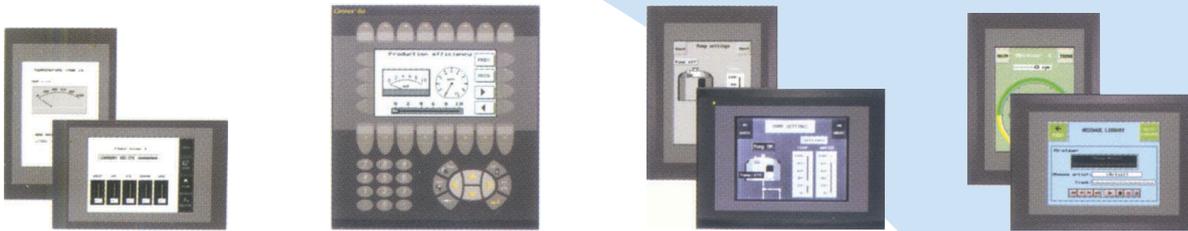
No protocol mode

In this mode, a serial device such as a barcode scanner or a scale can be connected to the controller through the terminal's second port.

Trends

Real-time or historic trending is available in the operator terminals from the CIMREX 30 to the CIMREX 91. The trend functionality features Real-time trending down to 1-second sampling intervals with up to six curves in one trend. One trend can hold up to 65,534 samples.

Trend history is saved in the terminal and can either be viewed in the terminal, or transferred to a PC over a TCP/IP network or serially. The data file is a standard text file that can be imported into Excel (or other programs) for further analysis.

A project can hold any number of trends the only limitation is the terminal memory size which is expandable with memory cards for most terminals.

Advanced alarm and event management

CIMREX alarm and event management provides a powerful tool for both operators and supervisors. Alarms can be sorted into 16 groups according to priority or type.

Both digital and analog signals can activate alarms with texts and pictures.

An information page can be easily linked to each alarm, giving the operator an overview of what has happened and provide a list of suggested actions.

Alarms can be sent via e-mail, or to a printer in the network.

Historical alarm data can be viewed in the terminal or transferred for viewing on a PC via the network or serially.

Access management with passwords

Each function key and object can be password protected permitting two or more authorisation levels within one project for certain tasks. Up to eight security levels can restrict access to the terminal's functions.

Automatic log-out prevents access rights from being abused after the password owner leaves the terminal. Passwords can be edited during run-time, which means that no project changes from the programming tool are required to change passwords.

The operator terminal can be used to control access to certain physical areas of production, such as a sterile room.

To protect the application, a password prompt may be added to prevent unauthorised persons from uploading a project from a terminal.

Easy adaptation to international applications

With multilanguage support which includes support for Unicode based characters CIMREX operator terminals fit in any application worldwide.

- Multilanguage support enables the operator to choose between up to ten languages and will save development time if the same application is implemented in different parts of the world.
- Unicode support enables the terminal to present characters from most languages, Asian as well as Western. Writing in Asian characters is easy, as the characters are presented in a keyboard window in the programming tool.
- The language file can even be exported for translation and then easily imported back into the project.

Easy control – also via networks

CIMREX operator terminals provide you with full flexibility, updating, monitoring and operation via networks, including the Internet. Depending on the protocol, the controller system can also be monitored and updated over a network.

The terminals can be connected in a network in many different ways, with Ethernet or serially.

The terminals operate in a client/server network, which offers fast communication.

Operate remotely from a PC

Surfing into the terminal via a web browser with Cimrex terminal applets enables you to operate the terminal from your PC's Internet Explorer. You see and operate the terminal just as if you were operating it locally. This is an easy way of providing on-site support for operators.

With additional HTML-pages stored in the terminal, you can safely write data to the controller in a customised view. The HTML-page can, for example, contain only certain signals that the remote user is allowed to access. The HTML-pages are accessed independently of the terminal's regular operation.
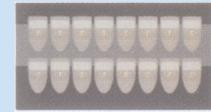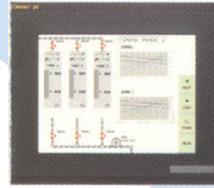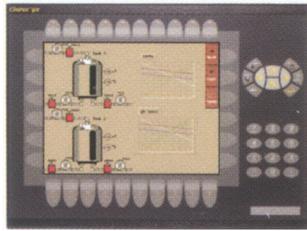
With the terminal functioning as an FTP server, files such as recipes, alarms and trends, can be uploaded/downloaded to or from the terminal over the network.

Send e-mail

The operator terminal can send e-mail messages when certain events occur,

e.g. alarms, key presses, or at certain time intervals.

Trend files can also be sent via e-mail.

Control with message libraries

Message libraries are text tables that are used to present each sequence in a sequence control, for example, to describe what happens in a packaging cycle. Furthermore, the message library can present error codes:

Time control with time channels

With time channels, digital signals are set and reset in relation to the real-time clock.

In this way, events can be programmed through the operator terminal to occur at certain times. Events might include turning on the overhead lights in an office, or activating an alarm system. This function replaces time relays and 7-day clocks.

Compact text display operator terminals with function keys – CIMREX 5,

Compact text display operator terminals with keypads and function keys –
CIMREX 12, CIMREX 20.

Graphic and text operator terminals with keypads and function keys – CIMREX 30, CIMREX 60, CIMREX 70, CIMREX 90, CIMREX 90D.

Graphic touch panel operator terminals – CIMREX 41, CIMREX 67, CIMREX 69, CIMREX 69T, CIMREX 91, CIMREX 91D.

Accessories

Expansion cards expand the functionality and connectivity of the operator terminal. Increased memory 4 or 8 Mb PCMIA flash memory cards.

Parallel printer interface, PROFIBUS DP and Ethernet cards and CAN open adapters.

Add on 16 function keyboards with programmable LED's

The C-Key16 expands the functionality of operator terminals by adding 16 function keys with text strips and LED's to a touch terminal, or by simply increasing the number of function keys for other terminals.

The keyboard measures 200 x 110 x 28 mm and has RS232, RS422 and RS485 ports. Up to four extended keyboards can be connected to one operator terminal.

CIMREX 30 to the CIMREX 91 support the C-Key16.

Safe and easy updates in the palm of your hand

With the freeware application HMI Tools for Palm™ handhelds, Cimrex provides you with an opportunity to easily maintain and update remote applications, safe update of system programs and projects, connect on the factory floor with easy upload and download of recipes, alarms, trends and HTML pages without travelling with your PC.

Free downloads

You will find this freeware on our website as well as other valuable features:

The online cable guide helps you find the right cables for your application.

The downloads area provides you with extensive help and information, manuals, program updates, start-up documents, software examples, manufacturer's declarations, free demos, new drivers and much more...

Proven in all industries

The operator terminals are at home in virtually any environment, from a tough industrial one, with high levels of oils and salts to a sterile room, and are found in such industries as: Automotive, Pharmaceutical Dairy, Food & beverage, Off-shore, Packaging, Power Semiconductors, Telecom and the Steel Industry.