

## The PROX+F/G family

Programmable Terminals for Time & Attendance Recording  
Access Control and Production control

### Description

PROX+F/G is the current top of our range of terminals.

A tough steel casing, a large keypad, a very legible display, a generous number of I/O and communications ports make PROX+F/G the ideal terminal for the most demanding applications.

### Main features

- Compact, versatile and very resistant, PROX+F/G is **easy to use** while offering a lot of built-in functions and a **high degree of programmability**. Users can activate programmes and procedures simply by pressing a key. Messages on the clear display and the beeper will guide them through the different stages of a procedure.

- Resident procedures for **access control and time & attendance** recording, with many ready-to-use features.

- Script interpreter **for customised data collection procedures**.

- PROX+F/G can function **on-line or in stand-alone mode**. Its robustness and functional design make it ideal for managing transactions in an industrial environment. It is suitable in any situation in general where reliable data collection and control is needed.

- PROX+G, fully compatible with standard alphanumeric PROX+, has a wide 240x140 dot matrix display that allows showing up to 4 different text fonts with up to 12 lines of 32 characters. All European languages special characters are supported with Windows™ ASCII codes. Function keys are aligned along the left border of the display, so that function descriptions can be clearly shown on it.

- Numeric **functional keyboard** with mobile-phone like letters editing.



- 128KB base **memory** for memorising up to 14000 transactions. RAM Card option for up to 1MB extra.

- Internal **Ethernet** interface (EtherLite) - optional.

- **Internal magnetic, barcode or proximity (RFID) card readers**. Wide range of technologies:

- 125 KHz 64 bit read only
- ISO 14443A & Mifare®
- LEGIC® advant and ISO 15693

- **GSM/GPRS** versions allow communications via GSM data sessions, or in/out sms or GPRS with TCP/IP packet data transmissions.

- **WiLite optional interface (external)** allows using PROX+G in environments with WiFi Internet coverage.

- In the event of a power failure, its optimised **battery management** and different energy levels ensure autonomous operation for up to 24 hours spread over a number of days. It retains data for 5 years (RAM Card option).



all the entries and exits recorded and, if uploaded by the host in special files, it can provide users with a breakdown of their hours and display personalised messages for either single users or groups. More functions can be defined and programmed. The users access rights tables like groups definition and time-zones can also be managed via the keypad.

Customised programs can be developed in the following ways:

- The **configuration parameters** can be set by means of the keyboard or via the communication links. They determine how the resident pre-programmed procedures of the terminal (attendance, access control, I/O task management, on-line or off-line functions) will be carried out.
- **Data collection procedures** can be launched by specific function keys, input events, or a time event. The sequence of the steps in the transaction can be determined on the basis of the date, the time, or the status of the input/output lines. The **transactions are defined by text files** downloaded onto PROX+F/G via the RS232 or NET92 links, or by transferring the RAM Card. These files describe the operator prompts and validity checks for each transaction. They contain the necessary operations, the questions to the operator, and data validity checks. In some cases text procedures are not enough. Then it is possible to download **programmes written in "C"** and compile them on your PC by means of a

"cross-compiler", via the communication links. TMC supplies a library to give high level support to all the hardware and software resources of PROX+F/G.

- **Up to three custom applications** can be installed on the terminal's **Flash ROM** via any of the available communication channels. TMC supplies a library to give high level support to all hardware and software resources of PROX+F/G.

### Software Support

- **TMCDLLDemo/Ethertest/CTW32**
- **NET92 DLL libraries**
- **PROX DLL libraries**
- **OCX for NET92**
- **OCX for EtherLite**
- **TRAXiT communication manager/monitor for batch applications**

### Hardware Specifications

|                            |  |
|----------------------------|--|
| <b>Keypad</b>              | Membrane type, dust and splash proof, with tactile action, 24 numeric+alphabetic and functional keys. Guaranteed for 2 million operations.   |
| <b>Display</b>             | Backlit, superTwist LCD. 2x16 with 9mm characters or 4x20 with 5mm characters, 240x128 dot matrix (view area 123x70 mm).   |
| <b>Internal reader</b>     | Magnetic ISO track 2, I.R. barcode, or proximity: 125KHz 164 bit read only; ISO 14443A Mifare®, LEGIC® advant and ISO 15693. Available without reader on request.  |
| <b>Auxiliary reader</b>    | RJ11 connector or 5 pin pin-strip for external barcode reader (pens, CCD, laser, barcode slot readers) or second magnetic reader.  |
| <b>Barcode decoder</b>     | EAN 13/8, I2/5, C39. EAN/C128.   |
| <b>Beeper</b>              | Magnetic single tone.  |
| <b>Communication ports</b> | on an extractable screw-connector block. <ul style="list-style-type: none"> <li>- <b>COM1:</b> RS232, 1200 to 38400 bps, software or hardware handshake, with RJ11 socket connected in parallel (preferred EtherLite connection port).</li> <li>- <b>COM2:</b> Current Loop (4800 bps max)/RS232/RS485, 1200 to 38400 bps, software or hardware handshake.</li> <li>- <b>NET 92:</b> RS485 with present protocol. Can function as either "slave" or "master".</li> </ul> |
| <b>Input/output ports</b>  | on an extractable screw-connector block. <ul style="list-style-type: none"> <li>- <b>Input:</b> 4 digital inputs, optocoupled for on/off sensors activated by currents of 3 to 20 mA, can be associated to counters for signals of up to 8 Hz.</li> <li>- <b>Output:</b> 3 with relay with normally open contacts, 2A @ 30Vdc max.</li> </ul>  |
| <b>Memory</b>              | RAM - 128KB, expandable with PCMCIA RAM Card (128KB, 512KB, 1MB). Flash EPROM - 256KB+32KBootloader.   |
| <b>Power supply</b>        | 9 to 14 Vdc, 400 mA (max). NiCd backup battery will ensure supply for up to 24 hours spread over a number of days. Data is retained for 2 months (5 years with RAM Card).  |
| <b>Working temperature</b> | 0 °C a +50 °C  |
| <b>Storage temperature</b> | -20 °C to +70 °C   |
| <b>Humidity</b>            | up to 100% (non condensing barcode version)  |
| <b>Casing</b>              | steel plate, splash proof (except barcode versions)  |
| <b>Dimensions</b>          | 185 x 190 x 50...90mm (D x H x P) - <b>PROX+F</b><br>185 x 250 x 50...110mm (D x H x P) - <b>PROX+G</b>  |
| <b>Weight</b>              | 1950 g - <b>PROX+F</b><br>2350 g - <b>PROX+G</b>   |