

# Time Recoding Terminal

## DOG20 Series



### Features

- 2 lines by 20 characters LCD.
- Membrane keyboard, 20 keys, dynamic layout.
- Integrated ID Card reader: several proximity types (Indala, H4102, Legic, Mifare), magstripe.
- Built-in fingerprint reader (option).
- Real time clock/calendar.
- Two relay outputs (el.lock, barrier, siren...) and two sensing inputs (door sensor, egress switch...).
- Ethernet or serial (RS232, 20 mA) interface for host communication.
- Ergonomic housing made of ABS plastics.
- RS485 interface for interconnecting up to 32 terminals in a subnetwork segment of up to 1200 m span.
- Reserve power battery (option).

### Benefits

- Optimal form factor for time recording.
- Ultimate flexibility for ID technologies.
- Autonomous, remote data collection with time stamping.
- Transparent, online communication between host and any networked terminal.
- Automatic switching between online and offline modes of operation.
- Contactless reading prevents card wear and tear.
- Fast card reading through wallets and handbags.
- Biometric verification eases use and prevents "buddy punching".

## APPLICATIONS

### Time & Attendance

DOG20 time recording terminals are designed specifically for use in Time & Attendance applications. The wide range of built-in card readers ensures compatibility with various RFID standards including the most advanced smartcards such as Legic Advant. An optional fingerprint verification reader is used for eliminating the problem of "buddy punching". At the same time it can even eliminate the need for cards, offering the ultimate convenience of a pure cardless system. Various biometric template management schemes are supported including on-card, on-board, and host-based.

### Access Control

DOG20 terminal can be used additionally as a single-door access controller. This feature allows a convenient combination of time recording with access control. The fingerprint reader provides a higher level of security in both card and cardless solutions. The terminal has two relay outputs and two inputs for a door sensor and emergency exit switch.

## TECHNICAL SPECIFICATIONS

<b>Display</b>	LCD supertwist, 2 lines by 20 characters, char. dimensions 9.66 mm x 6 mm, LED backlit.
<b>Keypad</b>	Integral polycarbonate membrane, 20 keys.
<b>ID Card Reader</b>	Proximity readers: - Frequency: 125 kHz (Indala, H4000) 13.56 MHz (Mifare, Legic) - Reading range: up to 10 cm, Magnetic reader: - ISO track 2, Lo-Co or Hi-CO.
<b>Fingerprint Reader</b>	FVB: Capacitive sensor 9.75 mm x 9.75 mm, 4000 templates, Verification / Enrollment time < 1s, EER (FAR=FRR) < 0,1% FIB: Capacitive sensor, 500 templates, Identification time < 2 s, FAR = 0,2%, FRR=1%
<b>Memory</b>	Up to 3200 time transactions, up to 4000 access profiles.
<b>Clock</b>	Real time clock/calendar, tolerance 10 ppm, stability +10/-120 ppm.
<b>Subnetwork Interface</b>	RS-485 (party line), optically isolated, 15.6 - 187.5 Kbaud, max. 32 terminals per segment, max. segment length about 1200 m.
<b>Serial Interface</b>	RS-232 or RS-422, 9600–57600 baud.
<b>Network Interface</b>	Ethernet, 100/10 BaseT, TCP/IP.
<b>Auxiliary Interface</b>	RS-232, 9600–57600 baud.
<b>Door Control</b>	Two relay outputs (max. 150 V, 2 A), two opto-coupled inputs (active or passive)
<b>Power Supply</b>	230V AC
<b>Environment</b>	Operating temperature: 0 do +50 °C, Storage temperature: -20 do +70 °C, humidity: 10 do 90 % (non condensing).
<b>Approvals</b>	89/336/EEC, 73/23/EEC, CE mark
<b>Physical</b>	220 mm (W), 245 mm (H), 85 mm (D), weight approx. 1500 g.

*All specifications are subject to change without prior notice.*

## INTERFACING DIAGRAM

