

# SY-785

9,000  
Templates

Quality time  
at your fingertips!



## Terminal features:

- Wireless communication
- Real-time database queries
- Job reporting / Shop floor control reporting
- Complex attendance reporting
- Reader options: Barcode, magnetic, proximity, Mifare, smart card
- Online/offline modes of operation

## Biometric features:

- Up to 9,000 Fingerprint templates for biometric verification/identification
- High resolution 500 dpi
- Fast 1:1 and 1:N matching speed
- Sensor options: Optical, Capacity
- A faster CPU card equipped with a higher frequency double speed crystal
- Flat membrane keyboard for better display quality (SY-765/SY-785)
- Flexibility - keyboard can be independently replaced
- Advanced hanging device enables aesthetic installation
- A detachable AC power cable



# SY-785



## Modes of Operation

- **Verification** - verifying employee's fingerprint versus employee's number and badge. Swiping of badge, or entering code, AND placing of finger verify reporter's identity.
- **Identification** - identifying an authorized person by biometric characteristics only
- **Fingerprint template on smart card** - Synel's SY-785 has the option of ensuring employees' privacy at all times, by storing the template on the employee's personal smart card, and not in an organizational database. This ensures that employee's privacy is maintained at all times.

## Programming

With the SY-785, you have a choice of systems:

### Working offline

There is no need for immediate communication with PC during reporting. All controls and checks are done independently by the terminal. With Syncomm, program your SY-785 terminal to:

- Operate differently according to the day of the week
- Provide single/multi-step or conditional reporting
- Validate data
- Select the input source (magnetic reader, keyboard, etc...)
- Display the information from the internal database

### Working online

Working with SY-Server:

- Interactive system with external database
- Data is transferred automatically without polling

## General Features

- Scheduling for required functions - for morning and evening periods, set the terminal for "swipe & go"; during the day, leave it set to record jobs.
- Technician mode is available for easy setup of the terminal.
- Enable the activation of a bell according to the day of the week, regardless of the program that runs on the terminal.
- Scheduling modem operation times.
- Displays time in several formats (US< European, military AM/PM)

## Technical Characteristics

Includes:

- Two relays for bell, door, etc...
- Two sensors (door monitoring etc..);
- I/O expansion option
- Additional serial ports for scale or printers
- Memory: 512 kB, battery-backed  
Dynamic distribution of memory mapping
- Display: Backlit LCD, 2 rows of 16 characters  
Alarm LED for irregularities notification
- Keyboard: 8 functional keys  
10 numeric keys  
2 browsing keys  
4 control keys
- Optional readers:
  - Bar code (3-of-9, interleaved 2-of-5, code 128, Coda Bar)
  - Magnetic (track I, II, III)
  - Proximity (contactless at 125 kHz)
  - Fingerprint recognition
  - Weigand (26, 37, 44 bit)
  - Smart card
  - Mifare (13.56 mHz) Read and R/W
  - HID
  - Indala

## Interfacing

- RS-485 for up to 32 terminals
- RS-232 for Host connection
- Optional:
  - internal 14,400 bps modem
  - Ethernet 10/100 mHz, POE 802.3 af
  - Wireless Wi-Fi 802.11 b
  - Bluetooth Class II

## Fingerprint Sensor Options

Optical sensor

- Has an extremely durable and scratch resistant sensor surface
- Can recognize virtually everyone's fingerprint quickly and reliably
- Has a solid sensor surface

Capacity sensor

- Has relatively hard coated surface as a solid state sensor

## Physical Characteristics

- Dimensions: Height: 17 cm  
Width: 25 cm  
Depth: 9.5 cm  
Weight: 1.120 kg
- Operating temperature: -20 - 60°C
- Humidity: up to 95% RH
- Power Requirements:
  - Operating power - 110/230 Vac @100 mA
  - Back-up battery - rechargeable, included



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The technical data sheet packed with the product is the only obligatory source of technical information