# PROTO / TIMER
## Automatic Temporization System

990-BT

- **Compact**
- **Solid - State**
- **Precision Time Base**
- **Led Display**

The model 990-BT is compact, reliable, and simple to install. It's quartz time-base integrated circuit timer gives a precise timing cycle and it is easily adjustable.

## Exemple of Applications.

The PROTO / TIMER is designed to be installed on different types of systems components, such as tanks, separators, aftercoolers, refrigerant or desiccant coalescing pre-filters, dryers and drip-legs, etc….

Installation of PROTO / TIMER insures that your compressed air systems will not be damaged by an accumulation of water or sediment. This allows for a greater return on investment, protection from down-time and longer life span for your systems.

## Advantages

- A single model accepts all valves equipped with a DIN connector.
- Compact
- Light yet durable.
- Easy to programme.
- Easy to install.
- Led Display.
- Meets Nema 4 standard.
- Short return on investment.
- **One year warranty from the date of purchase against any material or manufacturing defects.**

# Timing Cycle Adjustement with Led Display

**ACCORDING TO YOUR NEEDS AND SPECIFICATIONS.**

**TIME OFF Adjustment from 1 to 99 (Hours - Minutes or seconds)**
**TIME ON Adjustment from 1 to 99 (Hours - Minutes or seconds)**
**Precision +/- .0001 sec.**

# Electrical Specifications

| | |
|---|---|
| Voltage: | 50 to 240 VAC 50/60 Hz (upon request and specifications) |
| Power Consumption: | 0.2 W |
| Switching Capacity: | 300 Watt (3A) |
| Operating Temp: | -20 to 55° C |
| Degree of Protection: | Nema 4 (IP 65) |
| Valve Connection: | Option 1      U   Factory Mount |
| | Option 2      T   Plug-In DIN 43 650/ISO 4 400 |
| Cord | 6' grounded wall plug. |
| Display: | LED with 4 digits 0.375 inch |
| Memory | Permanent |

# Valve Specifications

| | STANDARD | OPTIONS |
|---|---|---|
| Functions: | 2 Ways, NC | Any Type of Valve |
| Raccords: | 1/4'' NPT | 3/8'' - 1/2'' - 3/4'' - 1'' As Specified |
| Orifice: | 1/8'' | As Specified |
| Pressure: | 165 PSI | As Specified |
| Coil: | Nema 4 | As Specified |
| Media: | Air - Oil - Water | As Specified |

# 990-BT Keyboard Function

**RESET TO ZERO =**    PRESS (SET) THEN PRESS (ON) (OFF) WHILE KEEPING THE SET KEY PRESSED THE TREE BUTTONS IN THE SAME TIME TILL YOU GET ▬ ▬ ▬ ▬ ON THE LED DISPLAY.

NOW YOU CAN DO YOUR OWN PROGRAMMING.

**TIMING OFF =**
**System OFF**
PROGRAMMING HOURS / MINUTES OR SECONDS
PRESS (OFF) TO CHOOSE THE DESIRED TIME TO PROGRAMM (Hr) (M) (SE)
ex. M = PRESS SET
PRESS (OFF) TO CHOOSE THE DESIRED TIME SEGMENT. (1 TO 99)
ex. 15 = PRESS SET
YOUR SELECTION IS CONFIRMED.

**TIMING ON =**
*System On*
PROGRAMMING HOURS / MINUTES OR SECONDS
PRESS (ON) TO CHOOSE THE DESIRED TIME TO PROGRAMM..
ex. SE ((Hr) (M) (SE)
PRESS SET
ex. 10 PRESS (ON) TO CHOOSE THE DESIRED TIME SEGMENT. FROM (1 TO 99)
PRESS SET. YOUR SELECTION IS CONFIRMED.

THE PROTO / TIMER SHOULD BE RESETED BEFORE IT CAN BE REPROGRAMMED

**TEST =**    WHEN THE PROTO / TIMER IS PROGRAMMED:

| | |
|---|---|
| PRESS OFF | = DISPLAYS (Hr) -(M) - (SE) (TIMER OFF) |
| PRESS ON | = DISPLAYS (Hr) -(M) - (SE) (TIMER ON) |
| LED | = LED TEST |
| BY-PASS | = VALVE TEST |

PROTO / TIMER
MODEL : 990-BT
TIME    TEST
OFF    SET LED
ON    BY PASS

3.625
(92.07)

2.25
(57.16)

**DIMENSIONS**