



*senseA*⁴⁵

*senseA*⁵⁰



Introduction

- **senseA45** and **senseA50** are industrial control equipments designed to control small / medium sized screw and reciprocating compressors whose motor is driven by contactors.
- Working with a pressure sensor that can output 4-20mA, **senseA45** and **senseA50** can control all parameters and threshold values required for the compressor to operate in stable condition. In this way, they provide energy efficiency and help you minimize equipment and labor costs by collecting all indicators on the control panel.
- While **senseA45** and **senseA50** provide an efficient and legible display of all information displayed on the screen thanks to their color screen, they provide easy adjustment by all users with full language support.
- With communication module and software included in the **senseA45** and **senseA50**, they provide equal aging and full performance operation of two compressors without the need for any other equipment. They help you to keep the required air production ready when you need it, at all times.

Specifications;

- Automatic and Continuous Working Modes
- 2.4 " color TFT LCD Screen 320x240 pixels
- Turkish and English full language support (All menus and warnings)
- Possibility to show the company logo at the opening
- **Equal aging of 2 devices without the need for an additional unit**
- Record of the last 15 alarm records with working hours
- 3 level authorization control (Factory, Operator and User)
- All parameters can be changed on the device
- 2 Pressure sensor inputs
- Programmable backup relay
- 6 Maintenance times
 - Optional stop function when required maintenance
- Restart function in case power failure
- Remote Operation and Remote Load Control with digital inputs
- Onboard Emergency Stop button

Highlights

- Energy saving with Automatic Operation mode when there is no air consumption
- Display of the last 15 alarms with operating hours
- Remarkable display of all icons and messages thanks to the color LCD screen. No need for reference document as all messages are clearly displayed
- Opportunity to display company logo at the beginning of the color LCD screen
- It allows maximum 2 devices to work with equal aging logic without the need for an extra unit. In this way, it provides an effective service life.
- Prevention of wrong configurations with authorization control at Factory, Operator and User level
- All parameters required for operation can be adjusted on the screen without the need for an extra PC or device.
- All timings, threshold values and parameters can be changed on the device
- Thanks to 6 separately adjustable service and part maintenance times, it provides easy tracking of service and maintenance times. (General Maintenance, Bearing Maintenance, Oil Change, Air Filter Change, Oil Filter Change, Separator Filter Change)
- Remote Operation and Remote Load control with the use of Digital Signal from different devices
- Opportunity to predict and take action against problems that may occur in the compressor with the use and control of 2 pressure sensors
- Adding new functions or easy troubleshooting of faults with the functions to be assigned to the optional relay
- Active control of operating status thanks to 8 digital inputs

Technical Features

Supply Voltage

- 10 – 24 VAC
- 10 – 40 VDC

LCD Screen

- 2.4" Color TFT-LCD 320x240 px.

Interface

- 6 Push Buttons
- 2 Status LEDs
- 1 Emergency Button

Digital Inputs

- 8 Adet Optho-isolated Digital Input
 - Emergency Stop
 - Engine Thermal
 - Seperator
 - Phase Sequence
 - Oil Filter
 - Fan Thermal
 - Remote Control
 - Backup / Remote Load

Analog Inputs

- 2 Pressure Sensors (4-20mA)
 - One is optional and can be activated via user interface
- 1 Temperature Sensor (NTC)

Outputs

- 6 250VAC/30VDC – 7A Relays
 - Line Contactor
 - Star Contactor
 - Delta Contactor
 - Solenoid
 - Fan
 - Back-up

Communication

- 1 RS485 Standard, for Multi-Unit

Memory

- Non-volatile 4Kbyte memory for storing parameters

Dimensions – *senseA45*

- Panel
 - 161mm x 112mm x 37.5mm
- Mounting Range
 - 139mm x 89mm

Dimensions – *senseA50*

- Panel
 - 193mm x 144mm x 39mm
- Mounting Range
 - 165mm x 116mm

Mounting Type

- Fixing with Metal Screw

SİMGA MEKANİK ALETLER SAN. VE TİC. A. Ş.

Sales&Factory: İkitelli OSB Mah.Marmara San.Sit.F Blok No:7

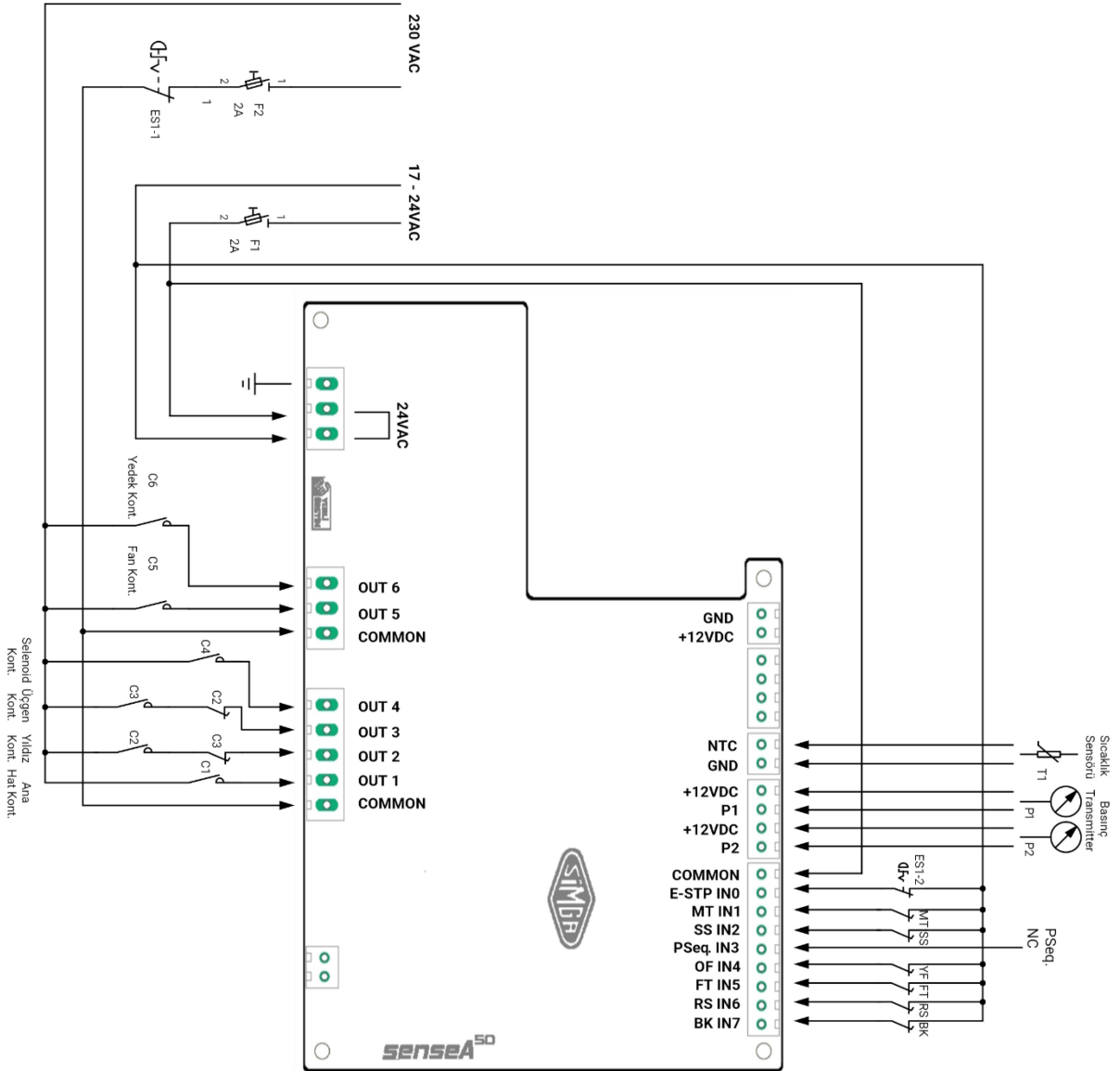
K.ÇEKMECE - İSTANBUL/TURKEY

Tel: +90 212 494 47 14-15

Website: www.simga.com.tr

Fax: +90 212 494 47 16

E-mail: simga@simga.com.tr



E-STP IN0: Emergency Stop
MT IN1: Motor Switch
SS IN2: Separator Switch
P.Seq IN3: Phase Sequence
OF IN4: Oil Filter
FT IN5: Fan Switch
RS IN6: Remote Start
BK IN7: Remote Load / Backup