

# Digital Operator (OPE-SRmini) Manual

## 1. OVERALL

### 1.1 Description

- This digital operator (OPE-SRmini) is used with NE-S1, VJ200, X200, SJ200, L200, SJ700D-3, SJ700, L700, SJ700B, L300P, SJH300 & VAH3 inverter series.
- The operator can display with 4 digits.
- The operator is capable for monitoring and setting the parameters.

### 1.2 Inspection upon Unpacking

Handle with care when unpacking, not giving a shock. Then check the item is the correct one, which you ordered, and check also there is any damage while transportation.

- (CONTENTS)
- ① Digital operator : 1 unit
  - ② Instruction manual : 1 unit

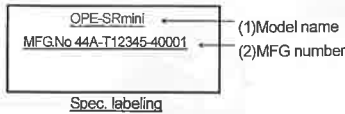
Please contact the shop where you bought the unit in case of trouble.

### 1.3 Question and Warranty of the Unit

#### Request upon asking

If you have any questions regarding damage to the unit, unknown parts or for general inquiries please contact your supplier or the local Hitachi Distributor with the following information.

- (1) Model name
- (2) Manufacturing (MFG) Number
- (3) Purchase date
- (4) Reason for Calling  
(Damaged part and its condition etc.  
Unknown parts and their contents etc.)



- It is advised to have stock to avoid non-working period due to any problem.

### Warranty for the unit

- The warranty period of the unit is one year after the purchase date.

However within the warranty period, the warranty will be void if the fault is due to;

- (1) incorrect use as directed in this manual, or attempted repair by unauthorized personnel.
- (2) the problem has caused external reasons other than the operator.
- (3) using the unit beyond the limits of the specification.
- (4) act of God (Natural disasters: Earthquakes, Lightning, etc).

- The warranty is for the operator only. Any damage caused to third party equipment by malfunction of the operator is not covered by the warranty.

Any examination or repair after the warranty period (one year) is not covered. And within the warranty period any repair and examination which results in information showing the fault was caused by any of the items mentioned above, the repair and examination cost are not covered. If you have any questions regarding the warranty please contact either your supplier or the local Hitachi Distributor.

### 1.4 Connectable model

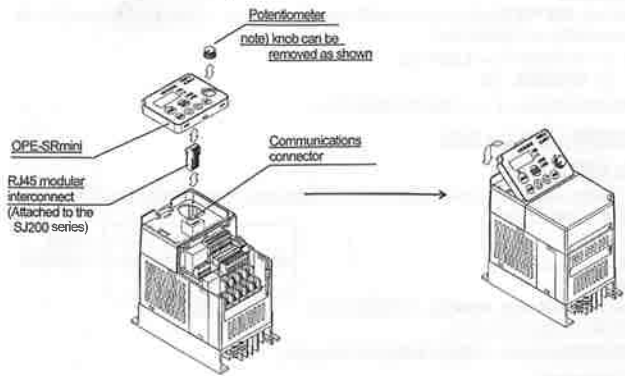
|                                                           |                                                                                              |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------|
| NE-S1, VJ200, X200, L200                                  | Connect with the connector on the surface of the inverter using a cable.                     |
| SJ200                                                     | Attached to the inverter.                                                                    |
| SJ700D-3, SJ700, L700, SJ700B, SJ300, L300P, SJH300, VAH3 | Remove the digital operator from the inverter and connect with the connector, using a cable. |

\* It cannot be used for the L100/SJ100 series inverter.

## 3. Installation

### 3.1 Mounting to an inverter (SJ200 series)

- Be sure to turn off the inverter before connecting or disconnecting the operator.
- Plug in the operator to the connector of the inverter main body, and push it until the unit clicks into place.
- Turn the inverter power ON.
- Confirm the operator is active.



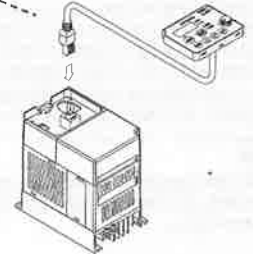
### Cable (ICS-1,3)



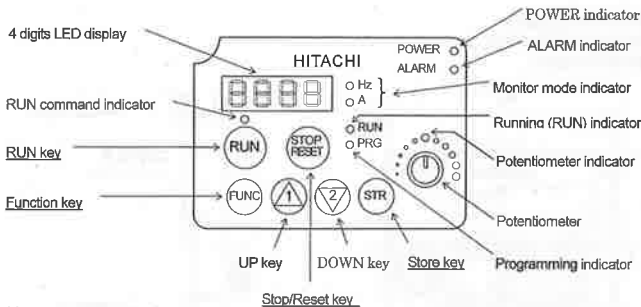
| Model | Length(L) |
|-------|-----------|
| ICS-1 | 1m(3.3ft) |
| ICS-3 | 3m(9.8ft) |

When using except for SJ200 series inverter, you need optional cables listed above, or compatible cable with the following.

Applicable connector : RJ-45 modular interconnect  
Applicable cable : EIA568 (UTP category5 cable)



## 2. Appearance and Description of the Operator (OPE-SRmini)



#### Lineups

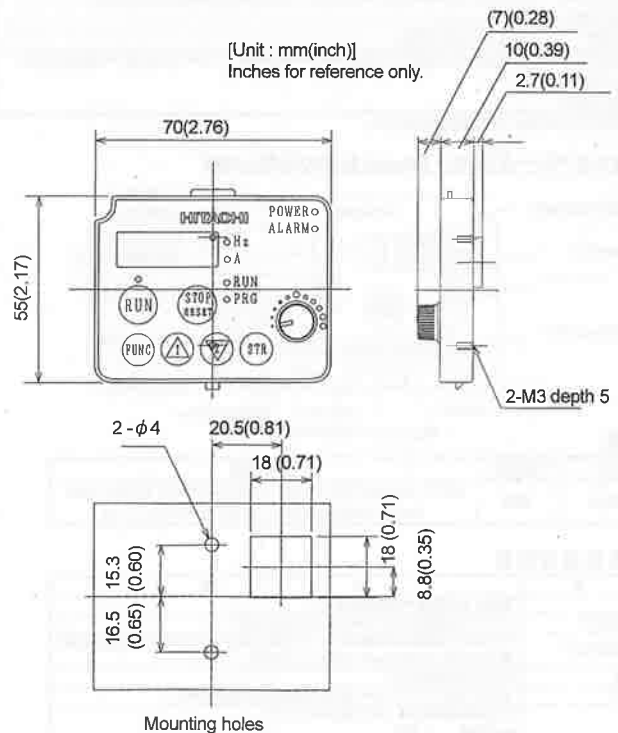
| Model name | Surface color | Applicable model                                                                                       |
|------------|---------------|--------------------------------------------------------------------------------------------------------|
| OPE-SRmini | Lavender      | NE-S1, VJ200, X200, SJ200, L200, SJ700D-3, SJ700-3, L700, SJ700B, L300P, SJH300 & VAH3 Inverter Series |

#### Name of each part and description

| Name                    | Contents                                                                                                                                                  |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 digits LED display    | Monitoring output frequency, motor current etc. or parameters.                                                                                            |
| Running (RUN) indicator | ON while the inverter is in operation.                                                                                                                    |
| Programming indicator   | ON while displaying the parameters. (abnormal parameter setting... only SJ300/L300P).                                                                     |
| POWER indicator         | Power lamp for control circuit power supply.                                                                                                              |
| ALARM indicator         | ON while the inverter is tripping.                                                                                                                        |
| Monitor mode indicator  | Indicates the unit associated with the parameter display. Hz: Frequency A: Motor current                                                                  |
| Potentiometer indicator | ON while frequency set method is set to integrated potentiometer.                                                                                         |
| RUN command indicator   | ON while the operation input method is set to operator.                                                                                                   |
| RUN key                 | Push key to start the motor running. Valid only while the operation input method is set to operator. (Make sure the RUN command indicator has turned ON.) |
| Stop/Reset key          | Push key to stop the motor, or to reset alarm condition.                                                                                                  |
| Potentiometer           | Potentiometer to set variable output frequency. Valid only while the Frequency set method is set to integrated potentiometer.                             |
| Function key            | Push key to change mode between Monitor, Basic function, Extended function and Function mode.                                                             |
| Store key               | Push key to store the set data. (Make sure to press this key to change the data.)                                                                         |
| UP/DOWN key             | Push key to change function code and/or data.                                                                                                             |

### 3.2 Mounting to a cabinet

Refer to the following dimension when installing the operator into a cabinet.



When using the optional ICS-1 or ICS-3 cable for remote operation, note the following.

- Be sure to turn off the inverter before connecting or disconnecting the cable.
- Do not pull the cable. When handling the digital operator, do not hold only the cable.
- When installing the digital operator to a panel, secure the cable so that its weight is not applied to connection.
- Make sure that the cable is at least 15 cm away from the main power cord of the inverter.
- If the cable or connector causes a poor contact during operation, pressing "STOP/RESET" key may not stop the operation. For safety, install an emergency stop switch that shuts down the power to the inverter.