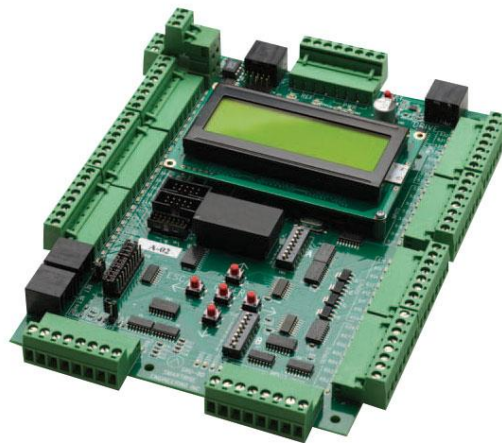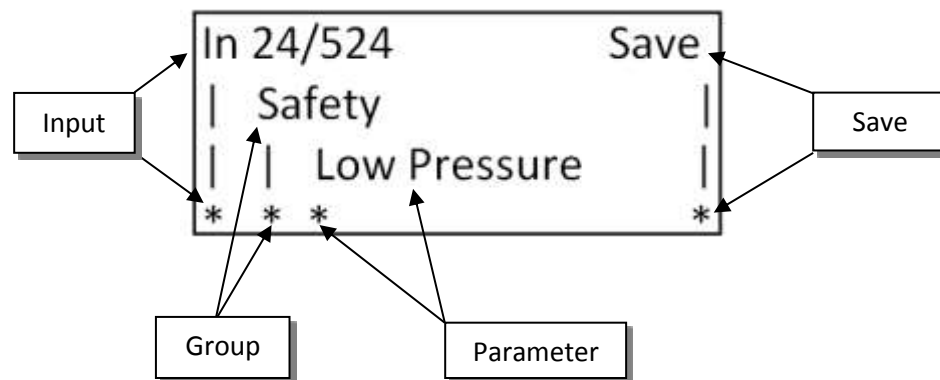# INPUT / OUTPUT PROGRAMMING MANUAL

SRU Board

Appendix D – Input / Output Programming Tutorial

The Smartrise SRU controller allows the user to program an Input or Output on any unused terminal.

The following example is how an Input is programmed for the addition of a Low Pressure switch on the machine room SRU board:

Example: Programming Instructions for adding an Input for Low Pressure Switch on Input 524

1) Go to **Main Menu | Setup | Local Inputs**
   a. With asterix on first line "Input" use up/down arrows to scroll to "In 24/524"
   b. Move asterix over with right arrow to second line (Group) & change to "Safety" using the up/down arrows
   c. Move asterix over with right arrow to "Parameter" section and change to "Low Pressure" using the up/down arrows
   d. Move asterix over with right arrow to "Save" line and press "Enter" button to save

2) You will need to supply the switch with 24vdc on one side and wire the other to this input port.

3) You can perform this for many different types of inputs and outputs. Take some time to scroll through the different categories to see which inputs / outputs are available.

   To program an Input you will need to go to **Main Menu | Setup | Local Inputs**.
   To program an Output you will need to go to **Main Menu | Setup | Local Outputs**.

   Note: Not all controllers will have <u>ALL</u> of these options as they are based on software revisions. This is just a generic reference for determining which category has which input/outputs.

1. Auto Operation
    a. (**Inputs**) Enable All CCBs, Independent Service, Learn Mode, Light Load, Enable All HCBs, Door Hold, EMS IC Key, Chime Enable, Sabbath Enable, Attendant Enable, Attendant Up Button, Attendant Down Button, Attendant Bypass Button, Car To Lobby, Swing Operation, HC Lockout A~D, Capture Car, Night Shutdown, Call Cancel NF, Parking Off, Door Hold Rear
    b. (**Outputs**) PI 1~8, Hall Lantern Up A~D, Hall Lantern Down A~D, Travelling Up, Travelling Down, Emergency Power, PI 9, In-Car Buzzer, Passing Chime, EMS IC Lamp, Sabbath Lamp, Disable PHE, Attendant Hall Call Above, Attendant Hall Call Below, In Service, In Use Lamp, Capture Car, Night Shutdown, Marine Normal

2. Doors (Front)
    a. (**Inputs**) GSW (1,2), DPM, DCL, DOL, PHE, Mechanical SE, DZ, DCB, DOB, Hall Close Slowdown, Hall Open Slowdown, Car Close Slowdown, Car Open Slowdown, Hall DOL
    b. (**Outputs**) Close Car Door, Open Car Door, Nudge Car Door, Run/DCP, Hall Lock Cam, Restrictor, Heavy Door, Door Hold Lamp, Car Lantern Up, Car Lantern Down, Close Hall, Open Hall, Slow Hall, Slow Car, Door Hold

3. Doors (Rear)
    a. Same as Doors (Front)

4. Fire/Earthquake
    a. (**Inputs**) Smoke 1~4, Phase2 Hold, Phase2 Off, Phase2 On, Call Cancel, Phase1 Reset, Phase1 On, Remote Key, Seismic, Counterweight, EQ Reset, Fire Stop Switch, On Emergency Power, EP (Emergency Power) Up to Speed, Flash Fire Hat
    b. (**Outputs**) Fire Lamp IC, Fire Lamp Lobby, Earthquake Lamp, Fire Phase I, Fire Phase II, Fire Main, Fire Alt, Shunt Trip, Doors Open @ Lobby, Doors Open @ Recall

5. Inspect/Access
    a. (**Inputs**) Inspection MR Enable (1,2), Inspection MR Up, Inspection MR Down, Inspection CT Enable (1,2), Inspection CT Up, Inspection CT Down, Access Enable (1,2), Access Bottom Up, Access Bottom Down, Access Top Up, Access Top Down, Inspection IC (In Car) Enable (1,2), Inspection IC Up, Inspection IC Down
    b. (**Outputs**) On Inspection

6. Controller
    a. (**Inputs**) Brake Pick, Viscosity, Battery Power, Slowdown High, Slowdown Medium, B1 Cont NO (Normally Open), B2 Cont NO (Normally Open), M Contactor NC, SAF1 Relay NC, SAF2 Relay NC, DP1, DP2, Pos Ref Switch, Drive Ready, Drive Fault, E-Brake RGM, E-Brake RGC, E-Brake DZM, E-Brake DZC, Limit Speed, Go OOS, CPLD Comm, Jacks 1, Jacks 2
    b. (**Outputs**) SAF1 Relay, SAF2 Relay, SM Relay, Relay UPH, Relay UPL, Relay DNH, Relay DNL, Brake Pick, Brake Hold, Drive Fault Reset, Drive Field Enable, Drive Run Up, Drive Run Down, Drive S0~S3, Relay RGM, Relay RGC, Relay DZM, Relay DZC Slowdown High, Slowdown Medium, Fan/Light, Brake Relevel, Drive Enable, On Main Line, On Battery, Call Demand, R Relay, S Relay

7. Safety
    a. (**Inputs**) Locks Top (1,2), Locks Middle (1,2), Locks Bottom (1,2), Hall Closed Top (1), Hall Closed Middle (1), Hall Closed Bottom (1), DETS (1,2), UETS (1,2), Construction, Stop Switch IC (1,2), Low Oil, Low Pressure, Overloaded, Fully Loaded, Governor, Overheat, Bypass GSW (1,2), Bypass Locks (1,2), Normal Limit Top, Normal Limit Bottom, Safety String, Flood Sensor, Governor (2)
    b. (**Outputs**) Overloaded Lamp

8. Car Call (Front)
    a. (**Inputs**) Button 01~96
    b. (**Outputs**) Lamp 01~96

9. Car Call Enable (Front)
    a. (**Inputs**) Key 01~64
    b. (**Outputs**) N/A

10. Car Call (Rear)
    a. (**Inputs**) Button 01~96
    b. (**Outputs**) Lamp 01~96

11. Car Call Enable (Rear)
    a. (**Inputs**) Key 01~96
    b. (**Outputs**) N/A

12. Hall Call Up (Front)
    a. (**Inputs**) Button 01~32
    b. (**Outputs**) Lamp 01~32

13. Hall Call Down (Front)
    a. (**Inputs**) Button 01~32
    b. (**Outputs**) Lamp 01~32

14. Hall Call Up (Rear)
    a. (**Inputs**) Button 01~32
    b. (**Outputs**) Lamp 01~32

15. Hall Call Down (Rear)
    a. (**Inputs**) Button 01~32
    b. (**Outputs**) Lamp 01~32

NOTE: Certain menu items are "Fixed" and cannot be changed. Contact Smartrise if you suspect a defective input or output terminal that is located on a fixed terminal.