

# Changeover Instructions

SP01075 to SP01262

|                  |            |         |
|------------------|------------|---------|
| Hardware         | SP01075    | SP01262 |
| Hardware Version | all        | all     |
| Software         | FW00103    | FW00122 |
| Software Version | V4.02      | V1.32   |
| Document Version | 2026-06-09 |         |

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## 1 General

These instructions are intended to support the changeover of an existing application from SP01075 to SP01262.

The changeover instructions do **not** replace the operating instructions for SP01262!

The hardware of SP01262 is partly based on that of SP01075, but has been largely redesigned. The software of SP01262 was developed from scratch. This document is therefore limited to the most important differences.

## 2 Differences in the Hardware

### 2.1 General

#### Control Inputs and Outputs

| SP01075 | Digital Input | Analog Input | Digital Output (24V) | Digital Output (Relay) |
|---------|---------------|--------------|----------------------|------------------------|
| IN1     | •             |              |                      |                        |
| IN2     | •             |              |                      |                        |
| IN3     | •             |              |                      |                        |
| IN4     | •             | •            |                      |                        |
| IN5     | •             | •            |                      |                        |
| OUT1    |               |              | •                    |                        |
| OUT2    |               |              | •                    |                        |
| OUT3    |               |              | •                    |                        |
| OUT4    |               |              | •                    | SPST-NO                |

| SP01262  | Digital Input | Analog Input | Digital Output (24V) | Digital Output (Relay) |
|----------|---------------|--------------|----------------------|------------------------|
| OUT1/IN1 | •             | •            | •                    |                        |
| OUT2/IN2 | •             | •            | •                    |                        |
| OUT3/IN3 | •             | •            | •                    |                        |
| OUT4/IN4 | •             | •            | •                    |                        |
| IN5      | •             | •            |                      |                        |
| IN6      | •             | •            |                      |                        |
| IN7      | •             | •            |                      |                        |
| IN8      | •             | •            |                      |                        |
| OUT5     |               |              |                      | SPDT                   |

|                                   | SP01075         | SP01262                                               |
|-----------------------------------|-----------------|-------------------------------------------------------|
| Digital inputs                    | For 24V signals | For 24V signals, compliant with EN 61131-2 (Type 1+3) |
| Input impedance of current inputs | 500Ω            | 300Ω, compliant with EN 61131-2                       |

#### Control power supply

|                | SP01075 | SP01262 |
|----------------|---------|---------|
| Output voltage | 24V     |         |
| Output current | 100mA   | 200mA   |

#### Other

|                                                  | SP01075   | SP01262                                 |
|--------------------------------------------------|-----------|-----------------------------------------|
| Additional PE conductor connection on rear panel | Available | Not available (leakage current < 3.5mA) |

## 2.2 IP20 Devices

### Dimensions (without connectors, switch, mounting brackets)

|                           | SP01075   | SP01262 |
|---------------------------|-----------|---------|
| Height                    | 165mm     |         |
| Width                     | 60mm      |         |
| Depth                     | 157mm     | 143mm   |
| Hole pattern for mounting | Identical |         |

### Connectors

|                                              | SP01075                                                                                     | SP01262                                                                                              |
|----------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Placement                                    | On bottom side                                                                              | On front side                                                                                        |
| Connector type of mains input                | WAGO<br>WINSTA Mini<br>3 pole                                                               | Phoenix Contact<br>COMBICON MSTB 2,5<br>3 pole, 5.08mm                                               |
| Connector type of magnet output              | WAGO<br>WINSTA Mini<br>3 pole                                                               | Phoenix Contact<br>COMBICON MSTB 2,5<br>3 pole, 5.08mm                                               |
| Connector type of control inputs and outputs | Phoenix Contact<br>COMBICON MC 1,5<br>11 pole, 3.5mm                                        | Phoenix Contact<br>COMBICON MC 1,5<br>10 pole, 3.5mm                                                 |
| Connector type relay output                  | Phoenix Contact<br>COMBICON MSTB 2,5<br>2 pole, 5.08mm                                      | Phoenix Contact<br>COMBICON MC 1,5<br>3 pole, 3.5mm                                                  |
| PC interface                                 | Phoenix Contact<br>COMBICON MC 1,5<br>3 pole, 3.81mm<br>(RS485, converter SP01056 required) | USB-C<br>(USB)                                                                                       |
| Shield clamps                                | 2 (optional)                                                                                | None (If available, cable shields should be connected to the feed-through of the electrical cabinet) |

### User Interface

|                | SP01075  | SP01262                                             |
|----------------|----------|-----------------------------------------------------|
| Mains switch   | Optional | None                                                |
| Display        | Optional | None, parameterization via PC interface or fieldbus |
| Menu buttons   |          |                                                     |
| Enable buttons | Optional | None, enable only via control signal or fieldbus    |

## 2.3 IP54 Devices

### Dimensions

|                                                 | SP01075   | SP01262 |
|-------------------------------------------------|-----------|---------|
| Height without connectors and mounting brackets | 165mm     |         |
| Width                                           | 60mm      |         |
| Depth without mains switch                      | 158mm     | 160mm   |
| Depth with mains switch                         | 171mm     |         |
| Hole pattern for mounting                       | Identical |         |

### Connectors

|                                              | SP01075                                             | SP01262                 |
|----------------------------------------------|-----------------------------------------------------|-------------------------|
| Placement                                    | On bottom side                                      |                         |
| Connector type of mains input                | ILME CKSF03                                         |                         |
| Connector type of magnet output              | ILME CKSM03                                         |                         |
| Connector type of control inputs and outputs | 4x M12 female connector                             |                         |
| Connector type relay output                  | M12 male connector                                  |                         |
| PC interface                                 | M8 (bottom side, RS485, converter SP01056 required) | USB-C (front side, USB) |

### Control Inputs and Outputs

|                                                                                     | SP01075                                      | SP01262                                                                             |
|-------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
| Distribution of the control inputs and outputs on the M12 connectors (except relay) | Most M12 connectors are assigned differently | All M12 connections are assigned the same and can be freely configured via software |

### User Interface

|                | SP01075                                | SP01262                                                   |
|----------------|----------------------------------------|-----------------------------------------------------------|
| Mains switch   | Available                              |                                                           |
| Display        | 2x8 characters without backlight       | 128x64 pixel with backlight                               |
| Menu buttons   | 4 buttons with fixed functions         | 4 buttons with variable functions                         |
| Enable buttons | 2 buttons with red corner illumination | 2 buttons with full-surface illumination in red and green |

### 3 Changing the Hardware

#### 3.1 Mounting

The hole pattern for mounting is identical.

#### 3.2 Connecting IP20 Devices

Mains input, magnet output and relay output can be transferred directly to the new connections of SP01262.

The assignment of the control inputs and outputs must be adapted depending on the application.

#### 3.3 Connecting IP54 Devices

Mains input, magnet output and relay output are directly plug-compatible between SP01075 and SP01262.

The pin assignment for the control inputs and outputs must be adapted depending on the application. The acceleration sensor SP01144 is directly plug-compatible.

## 4 Differences in the Software

### PC Interface

| SP01075                                                            | SP01262                                                                                     |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Compatible PC software: ParaDesk, MEDI                             | Compatible PC software: MEDI                                                                |
| Communication protocol: ParaDesk                                   | Communication protocol: MEDI                                                                |
| Device and version specific configuration file is required (.akf). | No configuration file is required, the required data is stored in the device.               |
| No oscilloscope function.                                          | Oscilloscope function via MEDI, which can be used to record the curves of parameter values. |

### Menu (Display)

| SP01075                                      | SP01262                       |
|----------------------------------------------|-------------------------------|
| Only certain basic functions are accessible. | All functions are accessible. |
| Languages: English                           | Languages: English, German    |

### Control Inputs

| SP01075                                                                                                                                                         | SP01262                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Some of the inputs are assigned directly to the respective function in the <i>Inputs functions</i> parameter group and some in the respective function modules. | The inputs are selected in the respective function modules.                                                    |
| The analog inputs are scaled manually via offset and multiplier.                                                                                                | The analog inputs are scaled automatically via predefined input ranges. User-defined scaling is also possible. |

### Control Outputs

| SP01075                                                 | SP01262                                           |
|---------------------------------------------------------|---------------------------------------------------|
| Only a limited selection of output functions available. | Extended selection of output functions available. |

### Logic Gates

| SP01075                                    | SP01262                                       |
|--------------------------------------------|-----------------------------------------------|
| No additional logic modules are available. | Three additional logic modules are available. |

### Synchronization

| SP01075                                                                                 | SP01262                                                                                                                            |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Old name: Master / Slave                                                                | New name: Synchronization                                                                                                          |
| Only frequency and phase position can be synchronized between multiple devices.         | Frequency, phase position, enable signal and setpoint or amplitude controller output can be synchronized between multiple devices. |
| Displayed frequency on the slave devices may fluctuate and may have a static deviation. | All devices display exactly the same frequency.                                                                                    |
| Attention: The signals of SP01075 and SP1262 are not compatible with each other.        |                                                                                                                                    |



**Enable Signal**

| SP01075                                                                                 | SP01262                                                                                                           |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Logical combination of several enable sources takes place implicitly in the background. | Enable source is selected explicitly. Logical combination of several enable sources can be set via logic modules. |

**Sollwert**

| SP01075                                                                     | SP01262                                                                                                 |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Setpoints are generated separately for open-loop and closed-loop operation. | The setpoint is generated centrally for open-loop and closed-loop operation.                            |
| Operation with two setpoints is integrated in level control.                | Operation with two setpoints is integrated separately as setpoint reduction in the setpoint generation. |

**Frequency**

| SP01075                                                                                                      | SP01262                                                                               |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Only the electrical frequency is specified throughout (half the vibration frequency for conventional drives) | The actual oscillation frequency is specified (except P7221 <i>Output Frequency</i> ) |

**Magnet Drive**

| SP01075                                                                                          | SP01262                                                                                                                                  |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Only has an overcurrent shutdown with adjustable delay time.                                     | Uses a current limiter. This ensures that the drive cannot be thermally overloaded and that there are no unwanted overcurrent shutdowns. |
| Only sine and sine with 3rd harmonic (to increase the headroom) can be selected as the waveform. | Additional waveforms are available for highly efficient operation.                                                                       |
| Only RMS voltage and current can be displayed.                                                   | RMS and peak values of voltage and current can be displayed. The saturation level of the electromagnet can also be measured.             |

**Acceleration Sensor**

| SP01075                                                                                   | SP01262                                                                                                                    |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Standard values for the offset limits of the sensor signal are only suitable for SP01144. | Standard values for the offset limits of the sensor signal are also suitable for certain sensors from other manufacturers. |

### Amplitude and Frequency Controller

| SP01075                                                          | SP01262                                                                                                                |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Specification of the setpoint and actual values as peak-to-peak. | Specification of the setpoint and actual values as amplitude.                                                          |
| Control method is not suitable for some applications.            | Control method is significantly improved and can cover a wider range of applications.                                  |
| Feeder always starts slowly due to the amplitude controller.     | Start-up can take place via a controlled ramp, so that a fast start-up is also possible with the amplitude controller. |
| The vibration amplitude is not calculated.                       | The vibration amplitude is calculated and displayed.                                                                   |

### Resonance Search

| SP01075                                                                                                     | SP01262                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The resonance search is started via the enable signal.                                                      | The resonance search is not linked to the enable signal and is started separately. For applications with interchangeable systems, the resonance search can also be started via a control input. |
| The measurement method is very susceptible to harmonics and can therefore not be used in some applications. | The new measurement method cannot be influenced by harmonics and can therefore cover a wider range of applications.                                                                             |

### Level Control

| SP01075                                                                | SP01262                                                                                                                |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Enable interruptions via the level control are not displayed anywhere. | Enable interruptions via the level control are shown on the display and in the parameter group <i>Enable Signals</i> . |
| Operation with two setpoints is integrated into the level control.     | Operation with two setpoints is moved to the setpoint generation.                                                      |
| Limited selection option for the behavior on a timeout.                | Additional options for timeout behavior.                                                                               |

### Sorting Air

| SP01075                                                                      | SP01262                                                                                                                      |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Activation / deactivation is done via the time setting.                      | Activation / deactivation is done independently of the time settings.                                                        |
| Enable interruptions via the sorting air control are not displayed anywhere. | Enable interruptions via the sorting air control are shown on the display and in the parameter group <i>Enable Signals</i> . |
| Only static sorting air control.                                             | Additional operating mode for active sorting with a sensor.                                                                  |

**Pulse Mode**

| SP01075                                                             | SP01262                                                                                                             |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Activation / deactivation is done via the time setting.             | Activation / deactivation is done independently of the time settings.                                               |
| Enable interruptions via the pulse mode are not displayed anywhere. | Enable interruptions via the pulse mode are shown on the display and in the parameter group <i>Enable Signals</i> . |

**Refill Feeder**

| SP01075                                                                           | SP01262                                                                      |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Control for refill feeders is implemented via the universal control module (UCM). | Universal control module is replaced by the simplified refill feeder module. |

**Pneumatic Step Conveyor**

| SP01075                                                                 | SP01262                                                                                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Control for pneumatic step conveyor (PB) is permanently coupled to UCM. | Control for pneumatic step conveyor is moved to a separate module, which is controlled by the refill feeder module by default. |

**Operating Time**

| SP01075                                                                                           | SP01262                                                                                        |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| The operating hours counter only records total operating time and operating time in feeding mode. | The operating hours counter also records the operating time in several temperature categories. |

**Error and Warning Messages**

| SP01075                                                     | SP01262                            |
|-------------------------------------------------------------|------------------------------------|
| Limited error messages.                                     | Comprehensive message management.  |
| Error reset only possible via global auto-reset or restart. | Various options for message reset. |
| No error memory available.                                  | Error memory available.            |

**Settings Memory**

| SP01075                                                                                                  | SP01262                                                    |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Resetting to factory settings is only possible by loading a suitable parameter set via ParaDesk or MEDI. | Can be reset to factory settings directly via the display. |

## 5 Changing the Parameters

The following tables describe how to configure an SP01262 based on an SP01075 parameter set. Some settings (parameters) cannot be copied directly and must be adapted depending on the application.

All parameters with four-digit numbers refer to SP01262, all parameters with three-digit numbers refer to SP01075.

If the settings have already been changed, please load the factory settings first. To do this, activate PF100 *Load Factory Settings* and restart the device.

| General        |                           |
|----------------|---------------------------|
| P0050 Address  | Leave on default setting. |
| P0060 Language | Adjust if necessary.      |

| Display/Buttons                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| P3001 F1 Button Function          | Adjust to fit application.                                      |
| P3002 F2 Button Function          |                                                                 |
| P3003 F3 Button Function          |                                                                 |
| P3004 F4 Button Function          |                                                                 |
| P3005 F1 Custom                   |                                                                 |
| P3006 F2 Custom                   |                                                                 |
| P3007 F3 Custom                   |                                                                 |
| P3008 F4 Custom                   |                                                                 |
| P3010 Parameter Menu Write Access | Deactivate if P116 <i>Enable menu keys</i> is set to "passive". |
| P3011 Change Values Directly      | Leave on default setting.                                       |

| Inputs                   |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| P5001 IN1 Mode           | Set depending on the connection assignment.                                                         |
| P5002 IN2 Mode           |                                                                                                     |
| P5003 IN3 Mode           |                                                                                                     |
| P5004 IN4 Mode           |                                                                                                     |
| P5005 IN5 Mode           |                                                                                                     |
| P5006 IN6 Mode           |                                                                                                     |
| P5007 IN7 Mode           |                                                                                                     |
| P5008 IN8 Mode           |                                                                                                     |
| P50F0 C1 Offset          | Only use if standard input ranges can't be used. Corresponds to P057, P058, P062, P059, P060, P063. |
| P50F1 C1 Multiplier      |                                                                                                     |
| P50F2 C1 Shunt (300 Ohm) |                                                                                                     |
| P50F3 C2 Offset          |                                                                                                     |
| P50F4 C2 Multiplier      |                                                                                                     |
| P50F5 C2 Shunt (300 Ohm) |                                                                                                     |

| Outputs             |                                                                                       |
|---------------------|---------------------------------------------------------------------------------------|
| P5201 OUT1 Source   | Set depending on the connection assignment.<br>Corresponds to P106, P107, P108, P109. |
| P5202 OUT2 Source   |                                                                                       |
| P5203 OUT3 Source   |                                                                                       |
| P5204 OUT4 Source   |                                                                                       |
| P5205 OUT5 Source   |                                                                                       |
| P5211 OUT1 Inverted | Set depending on the connection assignment.<br>Corresponds to P094, P095, P096, P097. |
| P5212 OUT2 Inverted |                                                                                       |
| P5213 OUT3 Inverted |                                                                                       |
| P5214 OUT4 Inverted |                                                                                       |
| P5215 OUT5 Inverted |                                                                                       |
| P52F0 24V Source    | Leave on default setting.                                                             |

| Logic Gates        |                                                       |
|--------------------|-------------------------------------------------------|
| P5410 LG1 Source A | Use if necessary, otherwise leave on default setting. |
| P5411 LG1 Source B |                                                       |
| P5412 LG1 Source C |                                                       |
| P541A LG1 Gate     |                                                       |
| P5420 LG2 Source A |                                                       |
| P5421 LG2 Source B |                                                       |
| P5422 LG2 Source C |                                                       |
| P542A LG2 Gate     |                                                       |
| P5430 LG3 Source A |                                                       |
| P5431 LG3 Source B |                                                       |
| P5432 LG3 Source C |                                                       |
| P543A LG3 Gate     |                                                       |

| Synchronization            |                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------|
| P6001 Sync Output Enable   | Leave on default setting.                                                                              |
| P6002 Sync Output Setpoint | Leave on default setting.                                                                              |
| P6010 Sync Input Source    | Set depending on the connection assignment, if P105 <i>Slave operation (Slave)</i> is "on".            |
| P6020 Phase Offset         | Copy value of P103 <i>Phase offset slave operation</i> if P105 <i>Slave operation (Slave)</i> is "on". |

| Enable Signals                            |                                                                                                                                                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P7001 State of OFF/ON Buttons at Power-Up | Set to "ON" if P093 <i>RUN/OFF keys (RUN/OFF)</i> is set to "active after Pon=RUN".                                                                                    |
| P7020 External Enable Source              | Leave on "OFF" if no external enable is used. If external enable is used, select the appropriate source. Use logic module if several enable sources need to be linked. |
| P7021 External Enable Mode                | Leave on default setting.                                                                                                                                              |
| P7030 Enable Logic Mode                   | Set to "Buttons AND External".                                                                                                                                         |

| Setpoint                          |                                                                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| P7101 External Setpoint           | If the setpoint is set externally, select the setpoint source depending on the connection assignment.                               |
| P7110 Min. Setpoint               | Adjust to fit application.                                                                                                          |
| P7111 Max. Setpoint               |                                                                                                                                     |
| P7120 Setpoint                    | Set appropriately for application if no external setpoint is used.                                                                  |
| P7130 Setpoint Reduction          | Replaces P070 <i>LC operating mode (Mode)</i> "1 Sensor low/high (1S L-H)" and "2 Sensor low/high (2S L-H)", as well as P074, P075. |
| P7131 Activate Setpoint Reduction |                                                                                                                                     |
| P7140 Start Ramp                  | Copy value from P098 <i>Start-up ramp</i> .                                                                                         |
| P7141 Stop Ramp                   | Copy value from P099 <i>Shut-down ramp</i> .                                                                                        |

| Frequency                      |                                                                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P7201 External Frequency       | If the frequency is set externally, select the frequency source depending on the connection assignment.                                                                                                      |
| P7210 Min. Vibration Frequency | Copy limits from P179 and P180 if P177 <i>Frequency monitoring (f Set)</i> is "on". If external frequency setting is used, set to suit the application.                                                      |
| P7211 Max. Vibration Frequency |                                                                                                                                                                                                              |
| P7220 Vibration Frequency      | If frequency is not set externally, use value from P069 <i>Output frequency (Freq)</i> and multiply it by 2 (only for conventional drives, for drives with permanent magnet, use value without multiplying). |

| Magnet Drive                        |                                                                                                                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P7301 Rated Current (RMS)           | Set to the rated current of the feeder or magnet. Do <b>not</b> copy the value from P065 <i>Continuous output current</i> without checking, as it may still be set to the default value. |
| P7302 Drive with Permanent Magnet   | Adjust to fit application.                                                                                                                                                               |
| P7310 Waveform                      | Set to "Sine" if P066 <i>Output voltage waveform (Curve)</i> is set to "Sinusoidal". Set to "Optimized Modulation" for "Sinusoidal with 3rd harmonic".                                   |
| P7311 Output Voltage Scaling (peak) | Leave on default setting.                                                                                                                                                                |
| P7323 Error at Voltage Limit        | Leave on default setting.                                                                                                                                                                |
| P7324 Error at Current Limit        |                                                                                                                                                                                          |
| P7350 Source Magnet Temp. Switch    | Leave on default setting.                                                                                                                                                                |
| P7351 Magnet Overtemperature when   |                                                                                                                                                                                          |

| Acceleration Sensor            |                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------|
| P7401 Sensor Source for AFC/RS | Set depending on the connection assignment.                                              |
| P74A5 IN5 Sensitivity          | Copy value from P162 <i>Sensor sensitivity</i> , depending on the connection assignment. |
| P74A6 IN6 Sensitivity          |                                                                                          |
| P74A7 IN7 Sensitivity          |                                                                                          |
| P74A8 IN8 Sensitivity          |                                                                                          |
| P7420 Min. Offset              | Leave on default setting.                                                                |
| P7421 Max. Offset              | Leave on default setting.                                                                |

| A/F Controller                      |                                                                                                                                                                                                            |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P8001 AFC Mode                      | Set to "Amplitude + Frequency" if P083 <i>CO on/off (Control)</i> and P104 <i>Frequency control (Cont. f)</i> are both "on". If only P083 is "on", set to "Amplitude". Otherwise leave on default setting. |
| P8010 Acceleration Setpoint Scaling | Adjust to fit application.<br>Caution: Setpoint value for SP01262 refers to amplitude, therefore setpoint value of SP01075 must be divided by 2.                                                           |
| P8030 Amplitude Controller P        | Leave on default setting.<br>Adjust to fit application if required. Do <b>not</b> copy the values from P084 and P085.                                                                                      |
| P8031 Amplitude Controller I        |                                                                                                                                                                                                            |
| P8034 Amplitude Controller D        |                                                                                                                                                                                                            |
| P8032 Do Not Reset Controller       |                                                                                                                                                                                                            |
| P8050 Frequency Controller t        |                                                                                                                                                                                                            |
| P8051 Frequency Controller w        | Activate if P177 <i>Frequency monitoring (f Set)</i> is "on".                                                                                                                                              |
| P8060 Frequency Monitoring          |                                                                                                                                                                                                            |

| Resonance Search      |                           |
|-----------------------|---------------------------|
| P8202 RS Start Source | Leave on default setting. |

| Level Control            |                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P9001 LC Mode            | Set to "ON" if P070 <i>LC operating mode (Mode)</i> is set to "1 Sensor on/off (1S 0-1)" or "2 Sensor on/off (2S 0-1)".                                                                                                                                                                                                                                                        |
| P9010 LC Sensor 1 Source | Select sensor sources depending on the connection assignment.                                                                                                                                                                                                                                                                                                                  |
| P9011 LC Sensor 2 Source |                                                                                                                                                                                                                                                                                                                                                                                |
| P9020 LC On Delay        | Copy value from P071 <i>LC switch on delay (ON del)</i> . Please note the units.                                                                                                                                                                                                                                                                                               |
| P9021 LC Off Delay       | Copy value from P072 <i>LC switch off delay (OFF del)</i> . Please note the units.                                                                                                                                                                                                                                                                                             |
| P9030 LC Timeout Mode    | Leave on "OFF" if P073 <i>LC sensor time-out (Timeout)</i> is zero.<br>Set to "Signal" if P073 <i>LC sensor time-out (Timeout)</i> is greater than zero and P165 <i>LC time-out switch off</i> is "off".<br>Set to "Signal + Stop" or "Signal + Stop + Error" if P073 <i>LC sensor time-out (Timeout)</i> is greater than zero and P165 <i>LC time-out switch off</i> is "on". |
| P9031 LC Timeout         | Copy value from P073 <i>LC sensor time-out (Timeout)</i> . Please note the units.                                                                                                                                                                                                                                                                                              |

| Sorting Air         |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| P9101 SA Mode       | Set to "ON" if sorting air output is used.                                    |
| P9110 SA Pre-Delay  | Copy value from P079 <i>SL SA pre time (Pretime)</i> . Please note the units. |
| P9111 SA Post-Delay | Copy value from P080 <i>SA post time (Posttime)</i> . Please note the units.  |

| Sorting Air with Sensor       |                           |
|-------------------------------|---------------------------|
| P9121 SAS Mode                | Leave on default setting. |
| P9130 SAS Ready Signal Source | Leave on default setting. |
| P9131 SAS Sensor Source       | Leave on default setting. |
| P9140 SAS Delay               | Leave on default setting. |
| P9141 SAS On Time             | Leave on default setting. |

| Pulse Mode        |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| P9201 PM Mode     | Set to "ON" if P081 <i>PO on time</i> or P082 <i>PO off time</i> are greater than zero. |
| P9210 PM On Time  | Copy value from P081 <i>PO on time</i> . Please note the units.                         |
| P9211 PM Off Time | Copy value from P082 <i>PO off time</i> . Please note the units.                        |



| Refill Feeder           |                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P9301 RFF Mode          | Set to "Standalone" if P117 <i>UCM mode</i> is activated and P120 <i>UCM disable condition</i> is "Never".<br>Set to "Linked to Enable Signal" if P117 is activated and P120 is set to a different value.                                                                                                                        |
| P9310 RFF Sensor Source | Select sensor source depending on the connection assignment.                                                                                                                                                                                                                                                                     |
| P9320 RFF On Delay      | Copy value from P118 <i>UCM on delay</i> . Please note the units.                                                                                                                                                                                                                                                                |
| P9321 RFF Off Delay     | Copy value from P119 <i>UCM off delay</i> . Please note the units.                                                                                                                                                                                                                                                               |
| P9330 RFF Timeout Mode  | Leave on "OFF" if P163 <i>UCM time-out</i> is zero.<br>Set to "Signal" if P163 <i>UCM time-out</i> is greater than zero and P164 <i>UCM time-out switch off</i> is "off".<br>Set to "Signal + Stop" or "Signal + Stop + Error" if P163 <i>UCM time-out</i> is greater than zero and P164 <i>UCM time-out switch off</i> is "on". |
| P9331 RFF Timeout       | Copy value from P163 <i>UCM time-out</i> . Please note the units.                                                                                                                                                                                                                                                                |

| Pneum. Step Conveyor           |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|
| P9401 PSC Mode                 | Set to "ON" if output function "PB OUT" (P106, P107, P108, P109) is used. |
| P9410 PSC Enable Source        | Leave on default setting.                                                 |
| P9420 PSC Sensor Top Source    | Select sensor source depending on the connection assignment.              |
| P9421 PSC Sensor Bottom Source |                                                                           |
| P9430 PSC Top Delay            | Copy value from P122 <i>PB upper delay time</i> . Please note the units.  |
| P9431 PSC Bottom Delay         | Copy value from P123 <i>PB lower delay time</i> . Please note the units.  |

| Signal Lights                 |                           |
|-------------------------------|---------------------------|
| P9510 SL1 Source Static       | Leave on default setting. |
| P9511 SL1 Source Flashing     |                           |
| P9512 SL1 Source Priority     |                           |
| P9513 SL1 Flashing Interval   |                           |
| P9514 SL1 Flashing Duty Cycle |                           |
| P9520 SL2 Source Static       |                           |
| P9521 SL2 Source Flashing     |                           |
| P9522 SL2 Source Priority     |                           |
| P9523 SL2 Flashing Interval   |                           |
| P9524 SL2 Flashing Duty Cycle |                           |
| P9530 SL3 Source Static       |                           |
| P9531 SL3 Source Flashing     |                           |
| P9532 SL3 Source Priority     |                           |
| P9533 SL3 Flashing Interval   |                           |
| P9534 SL3 Flashing Duty Cycle |                           |

| Fieldbus                   |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| PA001 Enable Fieldbus      | Activate if fieldbus is to be used and the device has a fieldbus module. |
| Error                      |                                                                          |
| PE001 Error Reset Source   | Leave on default setting.                                                |
| Memory                     |                                                                          |
| F100 Load Factory Settings | Leave on default setting.                                                |