Syndyne Corporation
Parts Catalog

Remarkable products for remarkable instruments
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The Master System
Syndyne’s MS8400 Pipe Organ Control System
The Syndyne System Legacy

For over 50 years, Syndyne has been an essential supplier of quality products to the pipe organ industry. With thousands of control systems and millions of console components in the field, Syndyne remains a trusted partner for the majority of organ builders across the globe.

The Syndyne name is derived from “synergy in human dynamics.” We believe that the sum of our effort together is greater than what our individual efforts can achieve. Syndyne’s teamwork and excellent staff, provide an impressive level of customer service. Our team not only has excellent synergy, but it is also perfectly sized to support the organ industry. Syndyne is large enough to be there when you need us, providing fast lead times, custom order fulfillment, and long term stability. Yet, our company is a closely knit team small enough to optimize the needs of the pipe organ industry, providing extremely competitive pricing and a personalized touch to serve you.

Syndyne is a family owned and operated company with core values that reflect the passionate spirit associated with the ‘King of Instruments.’ Serving the pipe organ industry by tirelessly pursuing better, more efficient products is ingrained into our progressive nature. From the first stop control Syndyne produced to the impressive, expandable MS8400 Control System, manufacturing excellence and quality service has been our primary goal.
Introducing the Master System

With thousands of control systems in the field, we have proven our system reliability in the face of thunder storms, floods, and the long steady stress of time. The MS8400 Master System is solid, with impressive driving capacity, expandable steel chassis, and extrusion reinforced circuit boards. The communication bus that connects our system was originally developed to keep airplanes in the sky, and freight-liner trucks safely on the road. During the MS8400 development process, we analyzed extensive industry feedback and years of system history to build upon previous strengths, add impressive new features, and overcome previous weaknesses. In addition to making our system robust, our components can be easily replaced in the field. Configuration data can be backed up onto a USB drive, so getting a system back online is simple. Unexpected downtime is minimized which leads to happier organists, congregations, curators, and organ builders.

The Master System is packed with incredible features and functionality, yet it is easy to install, configure, and use without requiring a PC. Our system’s modern touch screen and friendly organist interface makes it simple to get around, as opposed to cryptic and difficult displays offered by other systems. In installations where elegance or historical preservation is paramount, the MS8400 can be simplified even more to operate by mechanical controls and rotary selectors. The bottom line is that the MS8400 serves organists on their level providing a simple, yet powerful experience which puts control back into their hands. In doing this, we empower organists to make beautiful music on the most remarkable instrument the world has ever known, the pipe organ.
The MS8401 General Controller is primarily used as a connection point for crescendo, rotary transpose, and other basic console features. It also provides a connection point for the MS8405 touch screen control panel. MIDI In/Out/Thru ports are available on each general controller to hook up MIDI devices. One general controller is used in each console with up to 4 consoles system wide. The MS8401 also has indicators for common system functions.

Description

Dimensions

Length: 15”
Width: 4”
Height: 1 1/2”
MS8401 Features

- One general controller is used in each console with up to 4 separate consoles
- Provides power and data connection to the MS8405 touch screen controller
- Each general controller supports dual touch screens for added functionality
- Four universal twelve position rotary selector inputs on each general controller
- Rotary inputs can be used to control transposer, memory levels, chime volume etc.
- Four universal analog inputs are on each general controller
- Analog inputs for Crescendo 1, Crescendo 2, MIDI volume, and MIDI pitch
- Eight indicator outputs available on each general controller
- Indicators used for crescendo 1 and 2, MIDI Playback/Record, Blind Check, Etc.
- MIDI-In, MIDI-Out, and MIDI-Thru
The MS8402 Stop Controller Card can control up to 20 stops. The Master System can support a total of 64 stop controller cards for an overall system size of up to 1280 stops. There are no special wiring requirements for stops with the MS8402. Stops can be easily organized into divisions, and made into couplers or reversibles using the friendly touch screen interface of the MS8405.

**Dimensions**

- Length: 15”
- Width: 4”
- Height: 1 1/2”
MS8402 Features

• Modular design allows the builder to expand their system in increments of 20 stops
• Each card stores up to 5000 memory levels for its 20 stops
• Memory levels are divided across 50 organists at 100 memory levels each
• Standardized firmware that can be upgraded using a USB flash drive
• Programmable on site using the touch screen (No PC required)
• Stops on the same card can be grouped into different divisions
• Stop can be programmed as a coupler, reversible, and/or MIDI stop
• Stops can be programmed to turn on any output in the chamber as a stop line
• Two separate crescendos are available with 60 steps each
• Each crescendo has 4 memory levels available for each of the 50 organists
• Organists can copy crescendo memory levels from other organists
• Blind check mode can be activated, showing stops set to crescendo, tutti, or ventils
• If a single card is damaged, the rest of the stop cards continue playing
• Each organist can program 4 settings for each of two tuttis/SFZs
• Organist memory levels can be protected by an access code
• Organists can easily backup/restore their memory levels
• Programmable pulse time
• Available in either a positive or negative drive version for coils
• Each output is short circuit protected
MS8403 Piston Controller Card

Description

Each MS8403 Piston Controller Card can manage 28 pistons, including lamp/LED drivers for each piston. The system has capacity for up to 224 pistons per console in up to 4 consoles. Every piston in the system can be easily configured by the organ builder. In addition to configuring pistons as Generals or Divisionals, there are 39 special piston functions available as well. A few of these include: General Cancel, Divisional Cancel, Set, Reversible, Reversible with Cancel, Manual Transfer, Memory Level Up, Memory Level Down, Ventil, Sforzando, Tutti, Autopedal, Sequence Next, Sequence Previous, Blind Check, etc.

Dimensions

Length: 15”
Width: 4”
Height: 1 1/2”
MS8403 Features

- Modular design allows the builder to expand systems in increments of 28 pistons
- Pistons on the same card can be programmed to operate on different divisions
- Any piston can be programmed to be a reversible or other special piston
- The system can have up to 4 consoles with 224 pistons in each console
- Standardized firmware that can be upgraded using a USB flash drive
- Easily programmable on site using the touch screen. No PC required
- Card includes 28 indicators that can drive either a lamp or LED
- If a single card is damaged, the rest of the piston cards continue working
- Pistons do not need to be multiplexed
- General pistons can be sequenced using pistons inputs
- General piston sequencer can be set to sequence through memory levels
- Manual transfers can swap pistons as well as keying
- Reversible with cancel will pull off other stops along with the reversible stop
- Extensive list of special piston modes are available
MS8404 Key Input Card

Description

The MS8404 Key Input Card has 61 note inputs, an analog expression input, and pins available for acquiring key feed directly on the card. The key contacts are scanned and updated every 4 milliseconds. The expression input can be programmed to turn on outputs in the chamber. Both positive and negative key feed pins are provided along with the keying inputs in order to wire the key feed in with the rest of the keying bundle.

Dimensions

Length: 15”
Width: 4”
Height: 1 1/2”
MS8404 Features

- Key contacts are scanned and transmitted to the chamber every 4 milliseconds
- Modular design allows the builder to expand their system easily
- The system can handle up to 32 divisions of keying across 4 consoles
- Cards can be easily configured by the organ builder in the field
- The MS8404 has an active sense fail safe to protect keying data sent to the chamber
- Each MS8404 card has a programmable 128 step expression input
- The expression input can be attached to either a 5k or 10k Ohm potentiometer
- Two manual transfers can be easily programmed
- Coupling is handled by the chamber drivers simplifying non-coupling stops
- If one key input card is damaged, the remaining cards continue to play
- Built in diagnostics are available to show each note input number as they turn on
The MS8405 Full Color Touch Screen provides the builder and organist with the latest technological advances in organ control systems. This single display provides security, intuitive configuration, and scalable control. If additional display real estate is desired, a second LCD display can be installed to provide continual access to indicators such as memory and crescendo level. The MS8405 simplifies the installation process and provides the organist with something to brag about.

**Description**

The MS8405 Full Color Touch Screen provides the builder and organist with the latest technological advances in organ control systems. This single display provides security, intuitive configuration, and scalable control. If additional display real estate is desired, a second LCD display can be installed to provide continual access to indicators such as memory and crescendo level. The MS8405 simplifies the installation process and provides the organist with something to brag about.

**Dimensions**

Length: 3 1/4”  
Width: 4 1/4”  
Depth: 1 3/4”
MS8405 Features

- Primary display for the MS8400 System
- Uses a premium LCD display and touch screen with significant lifetimes
- Smart design allows for flexible mounting scenarios
- Screen can be used to secure the pipe organ with multiple access codes
- Allows the setup and customization of up to 50 organists
- Each organist has a customizable performance screen
- Color scheme and brightness customizable for each organist
- Configure the entire organ through this intuitive interface
- Provides an easy to use interface as opposed to cryptic alpha numeric displays
- Standardized firmware can be upgraded using a USB flash drive
- Builder can allow or deny access to nearly all functions in the system
- Integrated RF remote control for record/playback and wireless tuning (coming soon)
- Built in MIDI record and playback functionality, similar to the Syndyne Pro-Filer
- Multiple touch screens can be used to maximize organist’s access to features
- Simple chassis and bezel design provides easy and attractive mounting
The MS8406 chamber driver has 80 outputs that can be used to drive pipe magnets, swell motors, stop lines, and trap lines. The MS8406’s simple and versatile design grants the organ builder complete control over how the system plays the pipe organ. The builder can configure the chamber drivers from the comfort of the console and the programs can be saved and stored on a USB flash drive in case of lightning strike or other damage to a driver.

Dimensions

Length: 19”
Width: 4”
Height: 1 1/2”
MS8406 Features

- The MS8400 can have up to 318 chamber drivers with 80 outputs each
- Handles all driving needs in the chamber (Except AC Chimes)
- Standardized firmware that can be upgraded using a USB flash drive
- Modular design allows the builder to expand their system easily
- Each card has a 15 amp main fuse
- Each output is capable of driving a 2 Amp load
- Each output is reverse voltage protected
- Each output is short circuit protected
- Completely configurable
- Can create custom mixtures and resultants
- Provides outputs for up to 128 stages of expression (spread across multiple cards)
- Any output can drive a stop or trap line
- System configuration is simple, fast, and done from the console
- Each output has a fly back diode
- Accelerated note response for slider chests
- The MS8406 configuration can be saved on a USB flash drive
MS8416 AC Chime Driver Card

Description

The MS8416 AC Chime Driver Card has 25 note outputs and 6 volume control outputs. The builder can configure the AC chime driver from the comfort of the console. The chime driver’s configuration can be backed up to a USB flash drive for a quick restore if the MS8416 needs to be replaced. Syndyne’s chime volume selector switch, the MS8407CV, can be easily configured to control the 6 transformer tap connections on the MS8416.

Dimensions

Length: 19”
Width: 4”
Height: 1 3/4”
MS8416 Features

- The MS8400 system can have up to 318 chamber drivers (shared between 8416 and 8406)
- Drives 25 notes of AC chimes
- Standardized firmware that can be upgraded using a USB flash drive
- Modular design allows the builder to expand their system easily
- The MS8416 has a 7.5 amps main fuse
- Each output is capable of driving a 2 amp load
- 6 Triac Outputs are dedicated to control chime volume
- Volume outputs can be controlled by any selector input on the MS8401
- Completely configurable by the organ builder
- All programming is simple, fast, and can be done from the console
- Solderless connectors on board are simple to hook up.
- The MS8416 configuration can be saved on a USB flash drive
MS8408 CAN Repeater

Features

- Extends the MS8400 CAN network to over 300 total cards
- Extends the distance of the CAN network over 500ft
- Provides a method to easily add console plug-in locations
- No external power required

Dimensions

Length: 3”
Width: 2 1/7”
Height: 1”
MS8409 Power Sequencer

Features

- Controls power with four different on-board relays
- Up to 8 MS8409s can be used in the MS8400 system
- Relays provide a 4A AC or DC normally open contact for controlling organ power
- Each relay is programmable with a 1-60 second delay timer
- Each relay can be manually controlled from the touchscreen (blowers or chamber relays can be turned off at the console)
- Each output can be named for easy reference (blower, console2, swell relay, etc.)
- Relays are triggered by CAN traffic, or manual override
- Solderless method for connecting relays and power
- LED Indicator for each relay

Dimensions

Length: 6 1/4”
Width: 3 1/4”
Height: 1 1/4”
MS8410 MIDI Board

Description

The MS8410 is a feature-rich device that converts divisional keying, expression, console registration and temperature into MIDI messages for use with a digital sound module. Using the organ console, the organ builder can configure the MS8410 to operate with many different types of sound modules. The configuration information can be backed up to a USB drive for quick restoration if the MS8410 ever needs to be replaced.

Dimensions

Length: 7 1/4”
Width: 3 1/4”
Height: 1 1/4”
MS8410 Features

- Converts keying information to MIDI automatically or assigned to a stop control
- Any stop, anywhere in the MS8400 can be programmed as a MIDI stop
- Up to 16 MIDI stops can be assigned per MS8410 (1 per MIDI channel)
- Coupling can be included or excluded in keying conversion
- MIDI notes can be transposed up or down by two octaves
- First and last keys for MIDI conversion are settable for bass extensions (allows coupling and transposition beyond the scope of the keyboard)
- Settable minimum expression (0-127)
- Organ expression shoes can control either MIDI volume or MIDI expression
- Master volume can be set on each MIDI channel
- MIDI stops can be locked out and hidden for permanent sound modules
- Organists can assign and change unlocked MIDI stops quickly from the console
- Stops can be converted to messages that pipe organ sound modules will recognize (Call for a list of approved sound modules)
- A temperature sensor (CS6404) can be added to automatically tune a MIDI device
- Tuning can be controlled without a temperature sensor by using a pot on the MS8401
- Can have up to 8 MS8410's in a single system
- MIDI-In, MIDI-Out, and MIDI-Thru
MS8415 LED Bar Graph

• 30 Segment LED Bar Graph
• Available in red, green, amber, or multi color
• Configured through the MS8405 Touch Screen
• Smoked acrylic lens

Lens Dimensions
Length: 3-3/4” Width: 3/4”

Cut out Dimensions
Length: 3-1/8” Width: 1/2”

Behind Jamb
Depth: 3” (without cable)

MS8418 3 Digit LED Memory Level Display

• Easy to read 3 digit red LED display
• Smoked acrylic lens
• Displays system memory level

Lens Dimensions
Length: 3-3/4” Width: 3/4”

Cut out Dimensions
Length: 1-3/4” Width: 7/8”

Behind Lens
Depth: 3-3/4” (without cable)
MS8421 Potentiometer for Pitch or Volume

- Controls either MIDI Pitch or MIDI Volume
- Compact design allows mounting in tight console spaces
- Mounting plates available in brass, acrylic, or other materials
- Smooth and elegant rotary feel

**Plate Dimensions**
Length: 2” Width: 1-13/16”

**Switch Dimensions**
Knob Dia: 7/8” Knob Depth: 5/8” Hole Dia: 1” Depth Behind Plate: 1”

MS8407 Selector Switch

- Small profile for easy mounting
- 12 position memory level version
- 8 position memory bank versions

**Plate Dimensions**
Length: 2” Width: 1-13/16”

**Knob Dimensions**
Knob Dia: 7/8” Knob Depth: 5/8”

**Switch Dimensions**
PCB Length: 2-1/8” PCB Width: 2” Hole Dia: 7/8” Depth Behind Plate: 2”
MS8400POT Crescendo/Swell Shoe Potentiometer

- Mounts directly to a variety of surfaces including directly to crescendo shoe or swell shoe
- Highly adjustable mounting brackets on both shoe and potentiometer ends
- Dual RJ-11 plugs for quick connection and easy inverting of shoe operation

MS8420 Fiber Optic to CAN Converter

- Transmits MS8400 data through fiber optic cabling
- Prevents lightning damage through the data cable
- Extends the data cable distance over long runs

Dimensions
Lenght: 3-3/4”  Width: 2”  Height: 1”
MS8425 Diode Isolator Display

- Plugs directly onto an MS8406
- Contains 3 rows by 36 notes per board
- Expandable to 6 Rows by 72 notes
- Lowers cost by connecting multiple ranks to a single driver

Dimensions
Length: 4-1/8” Width: 6” Height: 1”

MS8426 Output Boost

- 12 individually fused 4amp outputs
- Negative or positive inputs
- Negative or positive outputs
- Solderless output and power connectors
- LED Indicator for each output
- 12-18VDC Operation

Dimensions
Length: 5” Width: 11” Height: 1-1/4”
MS8400CON/CHA Console and Chamber Chassis

- 2 standard lengths fit all main system cards
- Saves space by mounting cards vertically
- Modular design allows chassis to be sized to fit each system
- Installed Edge guides support the cards
- Thumb screws help lock cards in securely
- Helps create a clean and professional looking system install

Dimensions
Lenght(Console): 15-3/4”  Width: 1-1/2” (Per Chassis Segment)
Lenght(Chamber): 19-3/4”  Depth: 4” (Chassis Only)

MS8400 Standard or Custom Wiring Harnesses

- Standard harnesses available for MS8400 components
- Customized harnesses are built to fit any specification
- Minimize costly on-site installation time
- Hand laced for a professional look
- Color coded wiring and complete documentation on harnesses
- Competitive pricing
- Wired to most style plugs including solder tail and IDC
- Optional spreader and junction boards available for faster installs
MS8400D Data Cables

- Standard CAT-5E cabling
- Copper wire with gold plated RJ45 plug
- UL/cUL listed, RoHS Compliant
- Can be ordered in a variety of lengths

MS8400DRIR Industrial Data Cable

- Industrial, heavy duty cable and connector
- Good for use with movable consoles
- More rugged to withstand stages with foot traffic
- Can be ordered in a variety of lengths

MS8400DTR Termination Resistor

- Gold Plated RJ45 Plug
- Internal wired resistor
- Used to terminate the open CAN bus ports on either end of the system.

MS8400DJMP Display Connector Jumper

- Gold Plated RJ45 Plug
- Internal wired loop
- Used to bypass empty display connectors
MS8400 Adaptor Boards

When designing the MS8400 adaptor boards, we wanted to come up with a powerful design that complemented the flexibility of the MS8400 system. The result was a highly modular design that helps simplify complex system wiring. A lighted/loaded version is also available for troubleshooting and loading down key and piston contacts in dirty, salty, and humid environments.

- Modular design allows adapters to be customized by 8 or 12 pin increments
- Built in versions to plug onto any MS8400 main board as well as to fit custom pinouts
- Single row pin version for wire wrapping using a wire wrap tool
- Double row pin version for junctioning pistons or splitting cables
- Cable management holes are built in for lacing or tie wrapping
- Board sections are mounted on extrusion for extreme rigidity
- Can be used as an edge card for simultaneous removal of all pins on a card

Lighted/Loaded version available with the following features:

- Helpful tool for diagnosing and troubleshooting potential wiring problems
- LED indicators allow configuration of driver cards in the shop and prior to operational wind
- Dual color LEDs indicate input/output polarity (red for positive and green for negative)
- Provides additional load to low voltage inputs such as key and piston contacts
- Loading helps clean key and piston contacts in dusty, humid, and salty environments
MIDI Components
The Pro-Filer: Stand Alone MIDI Record and Playback

Description

The Pro-Filer is used to record and playback MIDI files. It has a touch screen interface that allows the user to record and load songs, and create play lists. It uses standard USB flash drives which can store whole hymnals worth of music.

Dimensions

Length: 3-3/4”
Width: 4-1/4”
Height: 1-17/25”
Pro-Filer Features

- 3.5 inch color graphical display with touch screen
- 1/384 of quarter note resolution
- Settable color themes
- Brightness adjustment
- Songs can be named with up to 8 characters
- Can view folders created on a PC for greater organization
- Create play lists of songs
- Play, rewind, fast-forward, stop, and record MIDI songs
- Records directly to USB drive
- Compact design for low profile installation
- Plays standard MIDI 0 files
The CS6401 provides controls for an Ahlborn sound module from the organ. Pistons, stops, and crescendo are wired into the CS6401. MIDI keying is attached to the CS6401 via a MIDI cable. The CS6401 merges the MIDI keying with the MIDI messages for the pistons, stops, and crescendo and sends them to the Ahlborn module.

Features

- Controls any of the four available Ahlborn archive modules
- Set MIDI channel of each division to match your Ahlborn
- Includes inputs for stops, pistons, and couplers
- Includes inputs for general cancel, crescendo, and tutti
- MIDI panic input for applicable modules
- Crescendo input for either roller contacts or potentiometer
- Acts as MIDI merge for incoming MIDI signals
- Operates with the LS6400 if MIDI keying signals are needed

Dimensions

Length: 9”
Width: 5-3/4”
Height: 1-1/8”
CS6402 MIDI To Serial

The CS6402 receives MIDI messages and converts them to Syndyne serial data. This allows MIDI messages to control Syndyne pipe, stop, and chime driver boards without all the Syndyne keying system boards in the console.

Features

- Converts general MIDI messages to Syndyne serial
- MIDI-Thru and MIDI-In ports
- Serial data out port to connect to Syndyne driver boards
- 2.1mm wall pack power available

Dimensions

Length: 7-1/2”
Width: 3-3/4”
Height: 1-1/8”
The CS6403 converts Syndyne serial data into MIDI messages. This can be used to control a sound module in the chamber.

Features

- Converts Syndyne serial into general MIDI messages
- Transmits MIDI messages to control sound modules
- Easily adds electronic voices to a Syndyne system
- Can be used in conjunction with driver boards

Dimensions

Length: 9”
Width: 3-1/2”
Height: 1-1/8”
The CS6404 is a temp sensor and stand used with the CS6403.

Features

- Sturdy mounting stand
- Adjustable clamp
- Quality temperature sensor
- Thermal putty for optimal heat transfer
- Low profile to fit in tight chambers
LS6400 MIDI Add On Board

The CS6400 is a simple, low cost device for adding general MIDI voices from a MIDI sound module to an existing organ. Key contacts, stops, and a patch change piston are wired into the LS6400. General MIDI sounds are selected on the sound module by pressing the patch change piston and pressing any key attached to the LS6400. The sound module is connected to the LS6400 with a MIDI cable.

Features

- Easy to install in an existing organ
- MIDI sustain
- 1 up, 1 down, and 2 down octave transposition
- 6 settable reversible pistons
- MIDI-In, MIDI-Out, and MIDI-Thru
- Built in MIDI-Merge
- Assignable to all 16 MIDI channels
- Play different MIDI sounds from each keyboard (multiple 6400s)
- Changes from one MIDI sound to another using the keyboard
- Adds general MIDI messages without an entire keying system
- MIDI volume, pitch, and expression control inputs

Dimensions

Length: 9”
Width: 5-7/8”
Height: 1-1/8”
Stop And Piston Controls
SDK Solenoid Draw Knob

Description

The solenoid draw knob glides in and out manually as well as automatically by driving four stationary electromagnetic coils. Each coil was designed to saturate at 14 volts, so power supplies adjusted over 14 volts will not cause loud switch operation. Our compact design allows tight switch placement even in small Moller consoles. A sealed reed switch and enclosed design protects against dust. The SDK has an elegant feel that is preferred by many over other knobs on the market.

Dimensions
SDK Features

- Models for 12 or 24 volt operation
- Angled metal chassis prevents dropped screws from shorting
- Models with 3/4 in travel or 3/8 in travel length.
- Models to fit 1 in or 3/4 in jambs
- Spacers available for custom jamb thicknesses
- Coils designed to saturate at 14 volts even with input over 14 volts
- Elegant feel
- Traditional operation - Pull out to turn on and push in to turn off
- Dust protective enclosed construction
- Easy to install
- Lightweight and compact design to facilitate tighter switch placement
- Can accommodate either positive or negative stop sense
- Builds for either positive or negative coil common
- A variety of color, felt, wood, and build options

Felt Color

- Red
- Brown
- Black

Collar Colors

- Black
- White
- Red
- Black

Ring Colors

- White
- Black

Stem Colors

- Black
- White

Head Colors

- White
- Ivory
- Black
SAM Stop Action Magnet

Description

The stop action magnet or SAM is a compact and effective way for organists to control stops. It features a hermetically sealed reed switch for significant longevity in even the most dusty and corrosive environments. With over 40 years in the field and hundreds of thousands of units sold, it has proven itself extremely reliable. The switch can operate in a wide range of voltages and can be built to accommodate 4 different lever angles.
SAM Features

- Printed circuit board for mounting diodes, resistors, and reeds
- Proven design since 1972 in hundreds of thousands of units
- 28 ohm coils, which operate on 9.5 to 15 volts (alternate ohms available)
- Compact size allows tight switch placement
- Available with 1 or 2 reeds (normally open or normally closed)
- Hermetically sealed reed switch, unaffected by dust or corrosion
- Magnetic toggling to eliminate sticking, while offering a smooth quiet action
- Unique, noise-free bearing design
- Accepts standard key tablets
- Patented cam adjustment for fast permanent key leveling
- Models for positive or negative coil common
- Available in 0, 10, 15, or 22 degree lever angles

Dimensions
THP Thumb Piston

Description
The thumb piston is pressed to create a momentary contact by closing a reed switch with a magnet in the button. The button is engraved with the pistons function and can come in different colors.

Features
• Models for lighted and non-lighted
• Flat button face for ease of engraving
• Different button color options
• Sealed reed switch contact for dust protection
• Lamps are available for 5 volt and 14 volt
• Newly redesigned
• Extended travel length
• Quiet operation
• Elegant feel
• Larger gauge tension clip for extended life

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch Common</td>
<td>0.773&quot;</td>
</tr>
<tr>
<td>Switch Terminal</td>
<td>0.200&quot;</td>
</tr>
<tr>
<td>Lamp Common</td>
<td>0.560&quot;</td>
</tr>
<tr>
<td>Lamp Terminal</td>
<td>0.773&quot;</td>
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<tr>
<td>Reed Switch</td>
<td>0.560&quot;</td>
</tr>
<tr>
<td>Stem Clip</td>
<td>0.200&quot;</td>
</tr>
<tr>
<td>Hole Depth</td>
<td>1.00&quot;</td>
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<tr>
<td>11/16&quot; Dia Hole</td>
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</tr>
</tbody>
</table>
Toe Pistons (Toe Studs)

The toe piston is pressed with your foot to create a momentary contact. It can also be ordered with special options that create latching and external momentary contacts.

Features

- Sturdy Construction
- Pyramidal vinyl inserts provide non-slip surface
- Multiple contact styles: standard momentary, external momentary, and external latching
- Finishes available in chrome or brass
- Felt available in black or red

Dimensions
Tabs, Heads, Stems, Engraving, Hardware, and Miscellaneous
Notched Classical Tab

Notched classical tabs mark a Syndyne Stop Action Magnet or SAM. They can be ordered in a variety of colors.

Round Classical Tab

Round classical tabs mark a Syndyne Stop Action Magnet or SAM. They can be ordered in a variety of colors.

Theater Tab

Theatre tabs mark a Syndyne Stop Action Magnet or SAM. They can be ordered in a variety of colors.
Rocker Tab

Rocker tabs are mounted on a 0 degree Syndyne Stop Action Magnet. We offer multiple styles and colors of rocker tabs.

Rocker Tab Dimensions

Length: 2.00”
Width: .91”
Height: .25”

Toe Stud Plates

Custom engraved plates to mark a Toe Stud. They can also be used as divisional markers and markers for other console features.

Customized Builders Plates

Custom engraved plates used to mark an instrument with the builder’s name. Builders can provide Logo and artwork which we can digitize and engrave for an additional fee.
SDK Draw Knob Head

SDK heads mark a Syndyne Solenoid Draw Knob or SDK. They screw onto an SDK Stem and can be ordered in a variety of colors.

Dimensions

Diameter: 1-1/8”
Height: 5/8”

SDK Draw Knob Stem

SDK stems are inserted into a Syndyne Solenoid Draw Knob (SDK) and are used to screw on an SDK head.

SDK Spacer

Solenoid Draw Knob spacers are used to mount draw knobs in abnormal jamb thicknesses. They can also be used to fine tune SDK mounting for different amounts of velveteen showing.

Dimensions

Length: 1.8”
Width: 1.5”
Mounting Screws

We sell hardware to mount any of our equipment. Some of our mounting hardware, such as Toe Stud mounting screws, are custom plated to match our switches. When ordering, please specify the equipment you want to mount so we can insure you receive the proper hardware.

SAM Mounting Rails/Kits

Mounting kits include the rails, screws, and hardware needed to mount Syndyne Stop Action Magnets in a console. They come in lengths for 10 or 15 SAMs.

Dimensions

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 SAM</td>
<td>8-3/4”</td>
</tr>
<tr>
<td>15 SAM</td>
<td>13-1/8”</td>
</tr>
</tbody>
</table>

SAM Lever Extenders

Lever extenders are used to extend the length of the SAM lever. They can be used in applications where the Stop Action Magnet is placed inside the console to move another mechanical switch or mechanism rather then mounting it in the jamb with a marked tab.
Engraving Services

Syndyne offers a full range of engraving services to cover the majority of instrument marking needs. From standard tablets to custom builders plates, our cnc engravers can quickly and precisely produce quality engraved products you will be proud to place on your instrument.

Features

- Standard Fonts: Block, Times New Roman, Old English
- Custom logos and fonts can be digitized for an added fee
- We offer a variety of colors and sizes for tabs and plates
- We also offer a variety of fill colors
- Our engraving equipment produces sharp and precise edges
Power Supplies SWS600/1000L

Power supplies are one of the most important elements to any control system. A faulty or old power supply can cause many costly problems with organ electronics. Syndyne offers quality power supplies in both a 43 amp and a 70 amp model. Our supplies are manufactured by TDK-Lambda, the top supplier of power supplies to the industrial market. Both supplies boast a large number of certifications as well as protection features. They are both covered by TDK-Lambda’s 3 year manufacturer’s warranty.

Features

- Voltage adjustment 12V to 19.5V
- Universal input (85-265VAC)
- Overcurrent, overvoltage, and overtemperature protection
- Active power factor correction
- Input transient protected IEC61000-4
- Can be wired in parallel connection
- Remote on/off switch
- Variable speed fan
- UL certified
- Other certifications: CSA, EN60950-1, EN50178, CE Mark
- 3 year manufacturer’s warranty

Dimensions

600 Length: 8-1/2”
600 Width: 6”
600 Height: 3-1/4”
1000 Length: 10-7/8”
1000 Width: 7”
1000 Height: 2-3/8”
Power Distribution Block

Distributing power throughout an organ can be complicated and make the installation less than attractive. Clean up and simplify your installation with a power block from Syndyne.

Features

- 2 poles for positive and negative connection
- 2 inputs per pole
- Inputs accept up to 10 gauge wire
- 15 outputs per pole
- Outputs accept up to 14 gauge wire
- Safety cover and mounting kit
- Self certified by manufacturer for UL 1059
- Affordable

Dimensions

- Length: 3-7/8”
- Width: 3-5/8”
- Height: 3-1/4”
The RPC-1 series remote power controls may be combined with a variety of switches, modules, and/or sequential control devices to provide a versatile low-voltage method of turning specific equipment on and off remotely.

**RPC-1 Switching Power Outlet**

- Power rating: 15A, 125VAC
- Outlet: 1 duplex
- 6ft termination cord
- Dry contact switch type

**Features**

**Dimensions**

- Length: 7”
- Width: 3-1/4”
- Height: 1-3/4”
ST Blade Fuse Block

Fuse blocks can help simplify the wiring process when dealing with a large number of fuses. This Blue Sea fuse block comes with a variety of features that help to improve the organization and look of an organ installation.

Features

- Positive distribution bus with #10-32 stud
- Can be used for 24-hour circuits
- Models available with or without a cover
- Cover satisfies ABYC/USCG requirements for insulation
- Incorporates an easy to open push button access latch
- Storage for two spare fuses
- Label recesses that accept labels for fuse identification
- Fuse block includes 20 write-on circuit labels
- Tin-plated copper buses and fuse clips
- Accepts ring or spade type terminals
- Accepts ATO® and ATC® fast acting blade fuses
Key Switch Contact

This key switch contact can be used to require a key to power the organ on. It can also be used for any application where a key is required to make or break a contact.

Features

• Zinc alloy with stainless steel facing
• Key switch provides a make or break contact
• Designed to press fit with ribs for added stability
• Posts on back provide easy surface for wiring
• Spare key provided

Dimensions

Length: 3-7/8”
Width: 3-5/8”
Height: 3-1/4”
Reed Switches

We offer reed switches to be used as replacements in our old equipment. Builders can also purchase these reed switches to be used in other projects.

Pedal Sharps (Key Caps)

Our pedal key sharps are made to match AGO style keyboards.

Dimensions

Length: 5.55”
Width: 2.68”
Height: .812”