

Classic Organ Works

A division of Artisan Classic Organ Inc.

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CONTROL PANELS and DISPLAYS

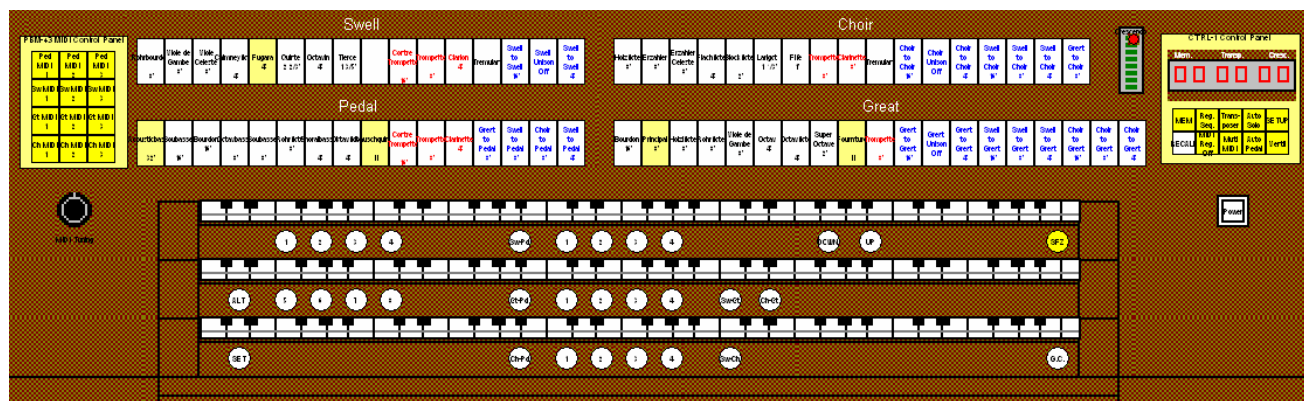


Diagram is from OrganWorks and shows a typical organ with control panels and a vertical bargraph

Modern organ control systems make use of micro-processor technology to provide many features not formerly possible on organs, such as multiple memories for combination-piston settings, transposing, Auto Pedal and diagnostics. They can also provide electronic ways to indicate things to the player, such as the settings of the expression shoes by means of bargraph displays. Consequently, they need to have extra controls and displays not previously found on consoles.

In the Classic Organ Works organ control system, these controls take the form of push-button switches and numerical displays grouped on a panel with which to access and adjust the various functions. This control panel should preferably be situated apart from normal organ controls but still accessible by the player. However, some of these extra switches may be placed beneath the manuals like normal combination-action pistons. The SET piston, in particular, behaves normally to set a combination but during the adjusting of functions may have other uses.

The essential primary controls for the Classic system are: SET, Alternative Function (ALT), UP, DOWN, SET-UP and Memory Level Select (MEM). Of these, MEM and SET-UP are alternative functions and must have indicator lamps or LEDs either in the switches or elsewhere, to show which one of the two is active. There are typically up to 99 memory levels that can be used via UP and DOWN and each one can store all the combination-action settings for all general and divisional pistons. UP and DOWN can also be conveniently placed under a manual as they primarily control the memory level, although during set-up they have other uses.

The ALT control does not need a lamp and we strongly recommend that it be placed at the left end of the second manual up to match SET on the bottom one. ALT acts in the same manner as the ALT button on a computer to give an alternative function to some other switch setting. In the Classic control system it not only gives an alternative function during set-up adjustments but it can be used normally to provide an alternative use for general pistons whereby they can change the current

memory level directly to a specific memory level (programmable for each general piston to any one you want).

Two other primary control functions with lamps that are desirable, but not mandatory, are Registration Sequencer (REG.SEQ.) and Transposer. These are alternatives to Memory and Set-Up such that only the active one of these four functions can be controlled by the UP and DOWN buttons. Secondary control functions are all optional and include reversible functions such as MIDI Registration Off, Multi-MIDI, Auto Pedal, Alt. Crescendo, etc., all of which require indicators.

If all these controls take the form of extra pistons with built-in lamps, then all that is needed is a numerical display somewhere on the console. Usually though, the extra controls are in the form of illuminated push-buttons on panels with, or without, a built-in display.

Panels and Displays available from Classic Organ Works:

Push-button panels with displays:

- **CTRL-1** Our standard panel with 6 or 10 lighting push-buttons and 3 double-digit numerical displays
- **CTRL-2** With 6 or 10 lighting push-buttons, 2 double-digit displays and 1 three-digit numerical display
- **CTRL-3** With 10 LED push-buttons, vacuum fluorescent display
- **CAD-2** Push-button array of 2 switches in a 2x1 format, with a two-digit display
- **PBM-2** Multi-purpose push-button panel with 2 switches in 1x2 format, with a three-digit display

Push-button panels without displays:

- **PBM-43** Push-button array of 12 switches in a 4x3 format
- **PBM-44** Push-button array of 16 switches in a 4x4 format
- **PBM-81** Push-button array of 8 switches in an 8x1 format
- **PBM-82** Push-button array of 16 switches in a dual 4x2 format
- **LPB-44** Push-button array of 16 switches in a 4x4 format (serial lamp drive)
- **LPB-82** Push-button array of 16 switches in an 8x2 format (serial lamp drive)

Displays only:

- **DB-2** One Dual numerical display
- **DB-4** Two Dual numerical displays
- **DB-6** Three Dual numerical displays
- **BRGF-20/1** Single Bargraph with 20 sections.
- **BRGF-20/2** Double Bargraph each with 20 sections.
- **BRGF-20/3** Triple Bargraph each with 20 sections.
- **BRGF-20/4** Quadruple Bargraph each with 20 sections.
- **VFD-1** Vacuum fluorescent display (same as used on CTRL-3)

Miscellaneous Control Panels that are within an MRCP (See MRCP brochure for details):

- **PBD-1** has a sub-board (PBM-1) with 8 half-inch-square push-buttons switches in an 8x1 row
- **NDD-1** has a sub-board (ND-1) with two 0.3-inch-high dual-digit displays
- **BGD-1** has a sub-board (BG-1) with a 16-section bargraph. Up to five are mounted in one row

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