Manuals+ — User Manuals Simplified.

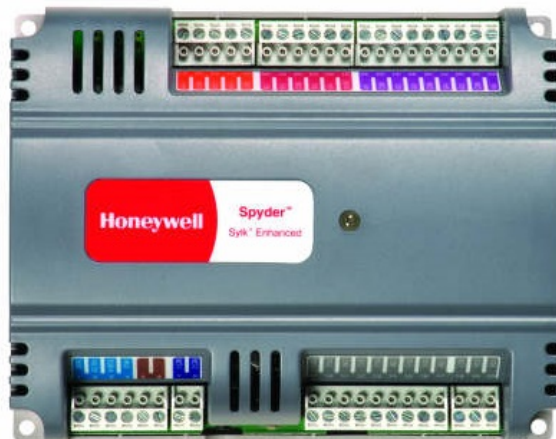# Honeywell PUL6438SR Spyder Relay Programmable Controllers Instruction Manual

Honeywell PUL6438SR Spyder Relay Programmable Controllers Instruction Manual

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PRODUCT DESCRIPTION

The Spyder with relay controllers are part of the Spyder family.
These controllers are designed to control HVAC equipment.
These controllers provide many options and advanced system features that allow state-of-the-art commercial building control. Each controller is programmable and configurable through software. These controllers are for use in unitary and advanced HVAC applications. Each controller has flexible, universal inputs for external sensors, digital inputs, analog and digital relay outputs. The Spyder with relay controllers are identical to the existing full sized Spyder controllers with the exception of having 8 24VAC relay outputs as opposed to 24VAC triac outputs. The relay outputs are rated for 200,000 cycles, 1 Amp continuous current and 3.5 Amps inrush for 100
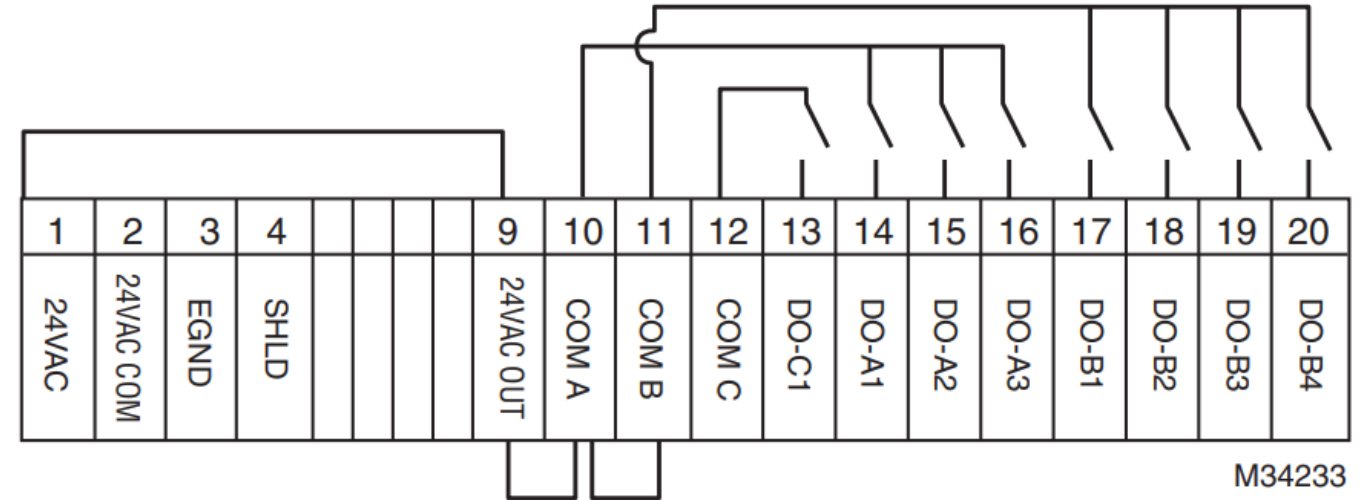
milliseconds (1/10th of a second).

Table 1. Spyder with Relays OS numbers

Controller Model	Comm. Protocol	Universal Inputs (UI)	Digital Inputs (DI)	Analog Outputs (AO)	Digital Relay Outputs (DO)
PUL6438SR	LonWorks	6	4	3	8
PUL6438SR-ILC	LonWorks	6	4	3	8
PUB6438SR	BACnet	6	4	3	8
PUB6438SR-ILC	BACnet	6	4	3	8

WIRING

The digital outputs of the Spyder with relay are designed differently and therefore are wired differently than the other Spyder products. The relay outputs are internally designed to provide up to 3 isolated "banks" of contacts. The factory installs removable jumpers between 24VAC and common of relay banks A (three outputs) and B (four outputs). The last relay remains isolated but could be jumped in the field if desired. The diagram below represents the internal schematic of the digital output circuitry

Fig. 1. Internal Digital Output Circuitry

M34233

In addition to this label, the factory includes another label for the DO's that matches the typical terminal designations for a standard rooftop unit (e.g. instead of DO-XX the label has RH, RC, W, Y, G and AUX). If desired, this can be placed over the top of the existing label for more intuitive wiring.

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