

## Texas, USA

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HOME > CATEGORIES > COMPLETED PROJECTS > TEXAS, USA

The control panel is part of a switchgear modernization project at a Texas steel plant. The functions implemented in our desktop allow you to control overhead cranes responsible for transporting scrap for melting in arc furnaces, transporting ladles of boiling steel for vacuum degassing or subsequent production stages in the foundry. Manipulators on the front panels will be used to operate magnet lifts in, among others, cold storage and warehouse departments.

Supply voltage: 120V AC

Control voltage: 24V DC

Rated current: 25A

Standard: USA

Tightness class: IP55

Corrosion protection: C2

Operating temperature range: -25°C to +40°C

**IMPLEMENTATION DATE: JULY 2019**

**Switchboard:**

**Dimensions:** 2900 mm x 1900 mm

**Type:** PS – control panel, special version: keyboard drawers, electrical sockets, entries for monitor cables and mounting brackets are installed in the housing, and additionally, to ensure failure-free operation of the switchgear, power supplies and a switch are installed industrial on an extended rail, which had a positive effect on the ventilation of the devices. At the customer's request, a hole was cut in the connector for future installation of the HMI panel. Set height: 925mm, set depth: 560mm.

**Color:** outside: RAL7035,

inside: RAL7035

**Manufacturer:** Radiolex

810-067.069 – **PS 1650\*925\*590** – Control panel – manufacturer Radiolex

810-067.069 – **PS 650\*925\*590** – Control panel – manufacturer Radiolex

#### **Siemens equipment used:**

**3SU1050-0AB10-0AA0** – Button drive with self-return 22mm 1-pos. black

**3SU1050-0AB20-0AA0** – Button drive with self-return 22mm 1-position red

**3SU1050-1AD10-0AA0** – Mushroom button drive black with spring return 22mm black

**3SU1051-0AB40-0AA0** – Button drive with backlight and self-return 22mm green

**3SU1051-0AB60-0AA0** – Button drive with backlight and self-return 22mm white

**3SU1051-1HB20-0AA0** – Mushroom button drive with red backlight

**3SU1051-6AA20-0AA0** – Signal lamp head 22mm red

**3SU1051-6AA60-0AA0** – Signal lamp head 22mm white

**3SU1052-2BL10-0AA0** – I-O-II switch drive with backlight 22mm green

**3SU1400-1AA10-3BA0** – Contact block 1 NO, spring connection

**3SU1400-1AA10-3CA0** – 1R contact block, spring connection

**3SU1401-1BB20-3AA0** – LED block 24V AC/DC red

**3SU1401-1BB60-3AA0** – LED block 24V AC/DC white

**3SU1930-0FA80-0AA0** – Plug for free control points

**6GK1901-1BB11-2AA0** – RJ45 cat. 6 plug in a metal housing

#### **Allen-Bradley equipment used:**

**1606-XLS120EA** – Power supply 120-240VAC/24VDC, 5A, 120W

**1606-XLS480EC** – Power supply 120-240VAC/24VDC, 20A, 480W

**1734-AENTR** – EtherNet/IP Adapter for I/O Modules

**1734-CTM** – Common Terminal Module

**1734-EP24DC** – 24VDC bus power extension module

**1734-IB8** – Discrete module 8 inputs 24 VDC

**1734-OB8** – Discrete module 8 outputs 24 VDC

**1734-TBS** – Base for 8-terminal modules

**1734-VTM** – Voltage Clamp Module

**1783-HMS16T4CGN** – Industrial switch, Stratix 5400

**1783-SFP1GSX** – SFP Optoconverter

#### **Phoenix Contact equipment used:**

2800859 –**CB TM1 2A F1 P** –Thermomagnetic safety switch 2A, 1-pole.

2800861 –**CB TM1 4A F1 P** –Thermomagnetic safety switch 4A, 1-pole.

2800883 –**CB TM2 4A M1 P**– Thermomagnetic safety switch 4A, 2-pole.

2800885 –**CB TM2 6A M1 P**– Thermomagnetic safety switch 6A, 2-pole.

2800929 – **CB 1/6-2/4 PT-BE** – Base with push-in connections for a safety switch

2907591 –**TM 82C 10A** –Thermomagnetic safety switch 10A, 2-pole.

2907598 –**TM 82C 25A** –Thermomagnetic safety switch 25A, 2-pole.

3208100 –**PT 1.5/S** –Feed-through rail terminal block 17.5A

3210341 –**PTT 1.5/S-L/MT** –Connector with knife disconnect 9A

3210356 –**PTT 1.5/S-2L** –Feed-through rail connector 9A

3210541 -**PT 2.5-PE/L/L** -Protective conductor terminal 20A

3214080 -**PTU 35/4X6/6X2.5** -Collective potential connector 105A, gray

3214081 -**PTU 35/4X6/6X2.5 BU** -Collective potential connector 105A, blue

3214082 -**PTU 35/4X6/6X2,5-FE** -Potential collective connector 105A, black/yellow

#### Rittal equipment used:

SK 3110.000 -**3110000**- Internal temperature controller in the control cabinet

SK 3238.110 - **3238110** - TopTherm IP54 filter fan

SK 3238.200 - **3238200** - Exhaust filter for filtering fans

#### Apparatus from other manufacturers used:

**02006089** - Patch Panel for DIN rail - manufactured by ANT

**17/03/1122** - Pneumatic arm for LCD monitor - manufactured by ROLINE

**9001K33H7** - 3-position manipulator 10A 600VAC - man. Schneider Electric

**UL12500** - Plug socket 15A 125V - man. ABL-Poland

#### GALERIA PRODUKTU WRAZ Z PRZYKŁADOWYMI REALIZACJAMI







