

PR 5610/05 Ex-Terminal



- "Plug and play"-functionality: direct control of all X5 controller without any programming
- Easy connection via serial interface
- EEx ib IIC T4 approval for operation inside hazardous area
- Characters height 12mm
- Scratch-resistant display with anti-reflective coating
- Robust metal housing with IP 65 front for panel mounting
- IP 65 stainless steel housing (option)

The Ex-Terminal is a remote display (slave) for indication and control of the system controller of the X-Family.

Full control in hazardous area

For the use of electronics in hazardous areas a lot of guidelines and regulations have to be followed. This means very often a compromise of functionality, applications and comfort.

Sartorius offers with the Ex-Terminal a comfortable and very easy solution. So from now on production processes in hazardous become more and more effective.

Powerful combination

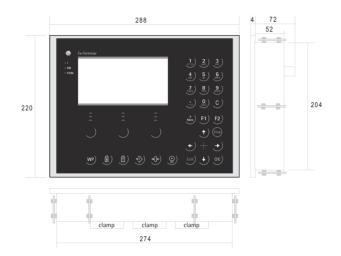
The Ex-Terminal is suitable for all applications with the system controllers of the X-Family in the hazardous area. For that the system controllers will be located in the safe area. The remote Ex-Terminal will be connected to the controller via a barrier and installed in the hazardous area. The operation of the

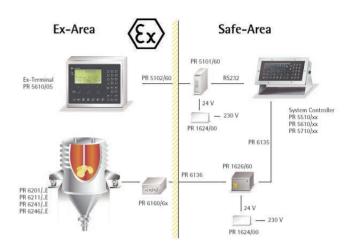
controller and the Ex-Terminal are identical.

The direct connection and plug and play functionality are all already implemented in all system controllers. The Ex-Terminal can be directly connected without any programming.

Additionally to the Ex-Terminal Sartorius offers a IP 65 housing in stainless steel, an intrinsically safe data interface and power supply for the Ex-Terminal and a cable to connect the Ex-Terminal to the interface.

По вопросам продаж и поддержки обращайтесь:





Technical Data

Protection type

according to EN60529/IEC 529 IP 65 (front) IP 20 (housing) IP 65 (built into stainless steel housing V2A, Option PR5103/60)

Approvals

eigensicher nach Richtlinie 94/9/EG (ATEX 100), Ex II2G EEx ib IIC T4 (DMT 02 ATEX E239)

Environmental conditions

Operation: 0°C - +50°C Storage: -20°C - +70°C rel. humidity: 0% - 75%, no condensation, 48h stress test

Front foil

Polyester, printed on back

Front panel frame

Aluminium, black anodized

Keyboard

with tactile feedback

Dimensions

Front panel (W x H): 288 x 220mm Cut-Out (W x H): 276 x 208mm Exterior depth: 72mm

incl. clamps, without connector

Weight: ca. 2kg

Display

LCD, supertwisted nematic, without background lighting, 148mm x 74mm, 3 lines à 20 characters, 12mm character height, scratch resistant Display, anti-reflective coating

Function display

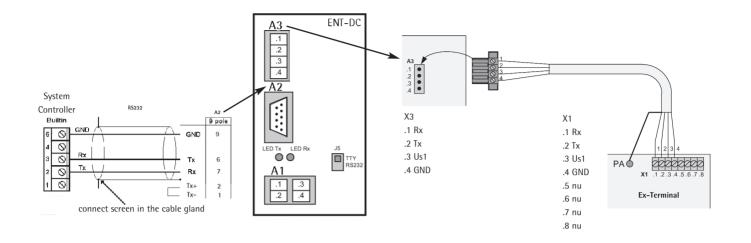
3 LEDs for power supply and error conditions

CE-declaration of conformity

The manufacturer confirms that this product corresponds to the relevant EMV guidelines as per 89/392/EWG. The Ex-Terminal carry the CE marking.

EX-cable connection schematic of PR 5101/60 and X5-Controller

Cable connection schematic of PR5101/60 an Ex-Terminal



Technical Data

Approvals

eigensicher nach Richtlinie 94/9/EG (ATEX 100) (\overline{\text{X}}\) II(2)G [EEx ib] IIC (DMT 03 ATEX E011x)

Housing

DIN rail mounting material: aluminium Dimensions: see drawing weight: ca. 1kg protection class: IP 20

Environmental conditions

Operation

Temperatur: 0°C - +50°C rel. humidity: 0% - 85%, no condensation, 48h stress test

Storage

Temperatur: -20°C - +70°C

Interface parameter: (Ex-Terminal <-> PR5101/60 <-> X5)

A1 power supply

power 24V_{DCr} -10% + 20% absolute maximum +32V_{DC} 380mA continuous current 2-pin connectors

A2 data interface

to connect to X5-controller Data, zero potential RS232 (remote setup) Default: 9600 Baud, 8 Bit, parity: none, 1 stop bit 9-pin D-sub connectors

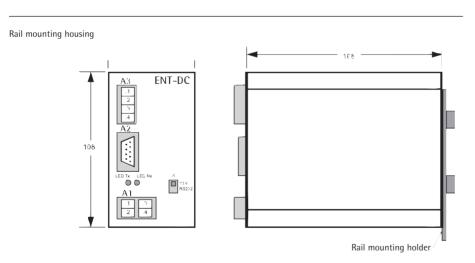
A3 Exi interface

to connect to the Ex-Terminal: Data 20mA CL 2 x 4-pin connectors

Delivery incl. pin connectors

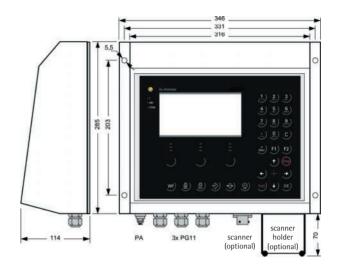
Cable PR 5102/60

Data- and power supply connection 4 wire cable diameter 8.7mm Cable in blue according to VDE 0165 length on request (max. 200m).



Used as table top version

Used as wall mounted version



The Ex-Terminal is compatible with all system controllers of the X-Family:

PRO Controller

The Pro Controller is a mutiple use device for precise weighing applications for industrial environment.

BATCH Controller

The BATCH Controller is a weighing controller with internal recipe handling to allow automation of batching, manual additions and process control.

FLOW Controller

The FLOW Controller is a feed rate control unit for the direct control of continuous discharge processes from weigh-hoppers.

IBC Controller

The IBC Controller is a powerful control unit for the direct control of automatic loading and discharge processes for IBCs (Intermediate Bulk Containers) with powders or granulated material.

TRUCK Controller

The TRUCK Controller is a weighing controller for weighbridge applications.

LOG Controller

The LOG Controller is a universal weighing controller for weight indication and simple inventory control.

FILL Controller

FILL Controller the automatic controller for filling of fluids.

BULK Controller

The controller for circuit scales.

Order information

Туре	Description	Order number
PR5610/05	X5-Ex-Terminal	9405 156 10051
PR5103/60	Housing for X5-Ex-Terminal	9405 351 03601
PR5101/60	Data Interface and power supply	9405 351 01601
PR5102/60	Data cable between Ex-Terminal and Interface	9405 351 02601

По вопросам продаж и поддержки обращайтесь: