

## FCT01-X

Factory Ex stainless steel terminal, designed for use in a Zone 1 hazardous area with a built-in A/D converter (max. 60,000 digits, not for use in legal metrology). The backlit graphical display ensures excellent readability and a high degree of operator convenience. Various applications can be programmed in the scale's menu, such as checkweighing, net-total formulation, product data memory, printouts, timer function, etc.).



- A/D converter. This scale can be connected to all conventional strain-gauge scales and analog platforms of the IF Series (flat-bed scales), IU Series (pallet scales) as well as all Combics-EX Platforms (with own EX-approval). Pursuant to Number 5.4 of EN 50020/1994, this simple electrical equipment does not need certification or special marking if they fulfill the technical specifications.
- They are standard equipped with an RS-232 data interface (or optionally an RS-485).
- The various installation options (bench mounted, floor stand, wall mounted, built into a control panel) are available.
- All cables are equipped with cable glands or threaded round connectors for networking.
- The version FCT01-XV1 is certified with load cells PR62... .
- All Sartorius Ex-products have additional to an ATEX-approval a verification of intrinsic safety (for the explosion protection document)

### Factory Ex stainless steel terminal, FCT01-X/FCT01-XV1, with built-in A/D converter

#### Performance specifications of the A/D converter

Weighing capacity	up to 120 t (max. 60,000 digits, not for use in legal metrology)
Accuracy class	II, III
Number of verification scale intervals	1x6000e 2x3000e 1x3000e
Bridge impedance	83 ohms minimum (FCT01-XV1: 140 ohms minimum) 2,000 ohms maximum (FCT01-XV1: 2,000 ohms maximum)
Sensor technology	6-conductor technology 4-conductor technology
Bridge supply voltage	Amplitude 5.2 V dc Constant voltage ( $\pm 2.6$ V dc)
Input voltage	0.05 mV/V minimum 3.6 mV/V maximum
Analog signal input variation	0.5 mV/V minimum 3.3 mV/V maximum

Partial error of the electronics	pi=0.5 6,250e pi=0.3 3,750e
Dead weight	Maximum for dead weight 0.7 mV/V Minimum for dead weight 0.05 mV/V
Temperature range	0 °C... + 40 °C
Cable can be connected to load receptor (recommended)	8x 0.5 mm <sup>2</sup> : Length ≤150 m, model LiYCY (resistance over the entire length of one wire: <13 ohms) Braided: round copper wire, tin-plated, 80% sheathed

**Technical specifications of the FCT01-X terminal**

Approved for EU countries including the UK	EEx ib IIC T4 II 2 G
Approval for USA (FM) Canada (CSA)	IS CL I, II, III, DIV1, GP A, B, C, D, E, F, G T4 CL I DIV1GP A, B, C, D T4
IP protection rating	IP65
Housing	Tilted design Footprint 87x268 mm Front 268x144 mm Stainless steel, AISI 304
Power supply	Via separate power supply (choice of power supply either for use within or outside a hazardous area) YPS02-... (see Accessories for “Modular” Factory scales)
Data transfer from hazardous areas	Via Zener barrier YDI ... (see Accessories for “Modular” Factory scales)

The power supply must always be ordered separately depending on the area of use and the country.