



XYD-2NPD PROFESSIONAL INSTALLATION (KDB 353028 D01, sections II.A.2.c) Attestation.

c) Professional installation

**i) Professional installation must be justified in the filing, and grant condition must state "This device must be professionally installed."**

Justification to support professional installation is given below and as part of this FCC filing.

The grant contains the required text "This device must be professionally installed".

**ii) Professional installation does not permit use of any antenna with the transmitter; the permitted types of antenna must be specified.**

The permitted antenna used with this device is a monopole antenna. This is stated in the Operational Description, illustrated in the external photos and supplied with the device as shown in the installation guide.

**iii) The applicant should address the following items when justifying professional installation.**

(1) To qualify for professional installation, the applicant must explain why the hardware is not readily available to average consumer.

The device is sold directly to street light luminaire manufacturers, distributors and installers and, hence, is not made available to the general public.

Installation of the T2A1P street light controller is performed by professionally trained installers to fulfil required safety standards.

(2) Marketing—Device cannot be sold via retail to the general public or by mail order; it must be sold to authorized dealers or installers only.

The device is sold directly to street light luminaire manufacturers, distributors and installers and is not made available for general public consumption.

(3) Filing must show that intended use is not for consumers and general public; rather device is generally for industrial/commercial use.

The device is part of a wireless street light control and monitoring system as stated and illustrated in the Installation Guide.

The T2A1P is a radio controlled device that will only function as part of a Telensa Central Management System (CMS). The T2A1P is assigned to work with a specific CMS and cannot be transferred to another CMS without being reassigned by Telensa.

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Company Registration  
No. 4498125  
VAT Registration  
No. GB 918 4425 15

(4) Explain what is unique, sophisticated, complex, or specialized about the equipment that REQUIRES it to be installed by a professional installer?

Correct installation of the device is required to ensure the electrical safety requirements for the installation of the T2A1P street light controller are met. Installation work requires working at heights of up to 3m to access the luminaire mounted at the top of a street lamp requiring specialised work platforms.

iv) Other professional installation requirements.

(1) Installation must be controlled.

Installation of the T2A1P requires access to the luminaires mounted at the top of street lights using elevating work platforms on public roads. The T2A1P is wired directly to the mains power supply to the street light as such professional installation is required to ensure the electrical installation meets national and local safety requirements and to ensure the installation work is carried out in a way that is safe for the installation personnel.

(2) Installed by licensed professionals (e.g., device sold to dealer who hire installers).

This device is only sold to street light luminaire manufacturers, distributors and installers and is not made available on the general retail market for the average consumer to purchase.

(3) Installation requires special training (e.g., special programming, access to keypad, field strength measurements made).

Training is provided on the installation of this device as part of the overall installation and commissioning of the street light control system to ensure the electrical installation meets national and local safety requirements and to ensure the safety of the installation personnel.

In addition, only professional installers with the required permissions to access street lights on public roads and with the required high-level working equipment have the required capability to adjust, repair or replace this device.

**THE INQUIRY IS:**

The device is supplied with a monopole antenna that has an SMA connector.