

**DM32-101
UTILITIES LOGGER
With GPRS
WATER, GAS, ELECTRICITY**



The DAN DM32-101 takes the collection and recording of utilities usage to a new level of simplicity and reliability, and without the need to visit the site. Used in applications within multi tenanted buildings or where utilities usage is required to be captured in industrial applications, the DM32-101 when connected to the relevant meters, ensures consumption is accurately captured, stored and transmitted. Housed in an IP65 polycarbonate enclosure, the unit may be located indoors or outdoors. It is suggested that outdoor locations be adequately protected from mechanical or malicious damage by being housed within a suitable housing.

The DM32-101 has 32 digital inputs which capture and count contact closures generated by standard meters. Each closure is captured and stored with the internal memory being updated to permanent memory each hour. The inputs are electrically isolated from the DM32-101 processing circuitry to ensure that field wiring errors cannot cause catastrophic failure of the processor unit and consequent loss of data.

Once installed, configuration of the DM32-101 is accomplished via the 4 large positive feel pushbuttons and using the visual display panel. Menu driven on board software provides flexibility in set up. The display has yellow-green backlighting making reading easy even in the most dimly lit basements. Data collected is routinely transmitted to the DAN website where it can be viewed and downloaded for permanent storage. Data may also be read on site.



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The website also provides facilities to manage changes in data input in the field and make alterations to the reporting period. Any changes made to the base data held within the DM32-101 are sent to the website immediately thus facilitating determination of validity of the changes made.

The DM32-101 has been designed for ease of ongoing use. Entry to the program mode is protected by a set of specific key entry requirements to guard against unauthorised changes. A separate PC or other device is not required, the DM32-101 stands alone.

While the DM32-101 is supplied with pre-configured data which would suit most applications, any item of data may be changed to suit the particular application at hand. Once in program mode selection of one of four menu data entry functions is available:

- APT (Apartment) permits the assignment of up to four alpha/numeric characters to provide meaningful names to each apartment or location
- SCL (Scaling) allows set up of the number of measurement units per contact closure
- ASC (Association) provides the facility to tie an apartment or location to an input
- PRE (Preset) to provide consistency, allows presetting of the total in the DM32-101 for any apartment or location to the same value as an existing meter

The DM32-101 has on board batteries which will allow it typically to operate for a minimum of 24 hours without external power. Batteries may be charged either from a DC source in the range 10 to 40V or via a power pack from mains power.

The DAN DM32-101 is the ideal solution where a reliable and cost effective stand-alone multi input metering solution is required which reports back to a web site.

Inputs - Digital:

Type	Contact closure
Number	32 input pairs with common negative
Activation	Pull input to common negative
Isolation	2KV for 1 minute
De-bounce Method	Software & hardware combination
Maximum Input Rate	20Hz
Input Shaping	Schmidt trigger with hysteresis

Inputs - Analogue:

Housing	IP65
Operating Temperature	-10°C to +50°C
Relative Humidity	0 – 90% RH non-condensing
Storage Temperature	- 20 to + 60 °C

Power Supply:

Source	Internal 24VDC SLA Battery 1200mAh
Battery Recharge	10-40Vdc at max 700mA internally managed
Maximum Operating Time	24 to 72 hours without recharge dependant on load
Solar Power	3 x 5W or 10W solar cells at 16V o/c

Hardware:

Display	2 line x 16 character alphanumeric lcd
Back light	Illuminates for 15 seconds when any key is pressed
Key Pad	Membrane with tactile buttons
Weight	2Kg (Approx)
Dimensions	181W x 250H x 110D (mm)

Operating Conditions:

Housing	IP65
Operating Temperature	-10°C to +50°C
Relative Humidity	0 – 90% RH non-condensing
Storage Temperature	- 20 to + 60 °C

IMPORTANT NOTICE:

Due to continued product development, specifications may change without notice. Always refer to Data Acquisition Networks for the latest information.