DI32-101
UTILITIES LOGGER
WATER, GASE ELECTRICITY

DATA ACQUISITION NETWORKS

Powerful Web Based
Data Logging Solutions

The DAN DI32 takes the collection of utilities usage to a new level of simplicity and reliability. Used in applications within multi tenanted buildings or where utilities usage is required to be captured in industrial applications, the DI32 when connected to the relevant meters, ensures consumption is accurately captured and stored. Housed in an IP65 polycarbonate enclosure, the unit may be housed 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 DI32 has 32 digital inputs able to 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.

Once installed, configuration of the DI32 is accomplished through the visual display panel by using the on board software. The display panel is illuminated from the back making reading easy even in the most dimly lit basements.

Simple menu style programming functions accomplished with the use of large positive feel press buttons makes initial set up accurate, simple and quick to accomplish. A separate PC or other device is not required, the DI32 stands alone.

DI32-201

While the DI32 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. Four menu data entry functions permit the assignment of alpha/numeric designations to unit numbers, input of initial meter readings, assignment of connected input number to unit number and individual meter measurement factor. Entry to the data change routines is protected by a set of specific key entry requirements to protect against unauthorized changes.

The DI32 has on board batteries which will allow it typically to operate for 24 to 72 hours without external power. This time is dependent upon the number of inputs actively being used and the volume of counts being received. If a dc supply is available at the site, the unit may be recharged by any available source of dc voltage in the range 10 to 40V. If mains power is available, a plug pack with an output in this range can be connected as the means of recharging the batteries. If no power source is available then solar cells can be directly connected and used as the means of recharging the batteries. DAN can supply solar cells and plug packs as part of the implemented solution.

Data is available by utilising the read data routine. Consumption collected from the meters is shown in its direct format of units, which were programmed into the DI32 when installed.

The DAN DI32 will become the industry standard for the collection of consumption data for all utilities

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Inputs:

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

Operating Conditions:

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 dependent on load
Solar Power	3 x 5W or 10W solar cells at 16V o/c

Hardware:

Display	2 line x 32 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)

IMPORTANT NOTICE:

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