

dynamic logic



D1234 & D1236 Microlog Remote Terminal Units (RTU)

The D1234 and D1236 Microlog RTU's form part of Dynamic Logic's comprehensive range of intelligent microprocessor based Remote Data Acquisition Units, designed for data and speech reporting over the Public Switched Telephone Network (PSTN).

Product Description

Maintaining 24 hours a day coverage, the D1234 and D1236 units provide a highly reliable and cost effective solution to the problem of monitoring, storing and reporting data/alarm conditions from a comprehensive range of sensors at remote sites.

The live alarm/status data is forwarded automatically to, or retrieved by, a distant Dynamic Logic Data Processing and Presentation host system, and may also be relayed to a duty engineer in speech mode.

Interrogation of live data and retrieval of site stored data is possible using Dynamic Logic's OPT package. Local and remote programming is also possible via OPT.

Configuration of the D1234 and D1236, sensor inputs, control outputs and operational parameters can be simply down-loaded from the host system or via OPT. The integral keypad and display allows these operations to be performed locally, together with enabling on site interrogation and display of the live data.

Their compact size and ease of operation, make the D1234 and D1236 RTUs ideally suited to a wide range of applications in industry and the Public Utilities. These can include flood warning, water and sewage monitoring, gas process monitoring and building services management.

Features And Facilities

Benefits D1234 and D1236

- Provide 24 hour coverage of remote sites.
- Reliable and cost effective performance.
- Automatic reporting of alarm conditions.
- Data and speech reports available.
- Totally user configurable/programmable - locally or from a remote host station or OPT.
- Integral keypad & Display for local configuration and interrogation.
- Expandable Input/Output capacity.
- Compact design.
- Ease of operation and maintenance.
- Suitable for a wide range of applications.

Common Features D1234 and D1236

- Programmable alarm dial out with automatic re-tries to host system or duty engineer.
- Telephone numbers (up to 5), dial-out rota & sensor dependent telephone numbers, all user programmable.
- Verbal transmission of basic format information using abbreviated solid state speech (SSS).

- Remote down loading and re-programming of operational parameters.
- Software calibrated parameters stored in non-volatile memory.
- Additional Dumb Text communications facility.
- User friendly, in-built keypad and display (security access code protected), for on site configuration/interrogation.
- Multiple Analogue Level Alarm Detects - LADs and Count Rate Alarm Detects RADS.
- Integral mains failure and low battery level alarm sensors.

Features D1234

- Facility for inclusion of up to one of each of the following option cards:
 - 8 Control Output card.
 - 48K Data Logger card for time & event logging.

Features D1236

- 3 card expansion capacity from the following cards:
 - 30 Digital IN & 8 Analogue IN.
 - 30 Digital IN & 16 Control OUT.
 - 48K Data Logger for time & event logging.

Note: Verbal transmission of Expansion Card I/O is reported globally.

- Analogue profiles alarms, when used with Dynamic Logic Masterstation system.

Specification

- General Designed in line with BS415, BS6204, BS6301 and BS6305
- Sensor Inputs D1234
Input configuration
 - 16 Digital IN
 - 4 Analogue IN
 - 2 Counts IN - expandable to 8 Counts IN (by reducing Digital IN by 6).
- Sensor Inputs D1236
Basic configuration
 - 16 Digital IN - expandable to 106 Digital IN.
 - 8 Analogue IN - expandable to 32 Analogue IN.
 - 2 Counts IN - expandable to 8 Counts IN (by reducing Digital IN by 6).
- Control Outputs
 - D1234 = 8, or D1236 = 16, open collector transistor control outputs per expansion card. Each Output can be set for either Inching or Latching operation.
- Transmission
 - Public Switched Telephone Network to BS6305.
 - 300 baud FSK to CCITT V21 standard.
 - Abbreviated Synthesised Speech alarm reporting.
- Operation Interface
 - Keypad entry of programmable variables
 - Integral 24 character LCD display.
 - Serial communications port.
- Power Supply
 - 110/240V AC 50/60Hz mains input.
 - Integral 8 hour (nominal), stand by battery.
 - Optional**
 - external 12V DC supply.
 - Internal automatic power supply monitoring for:**
 - mains failure.
 - low battery conditions.
- Environment
 - -10°C to +45°C.
 - IP65 Enclosure.
 - 0 to 95% Relative Humidity.
- Installation
 - 300mm wide 300mm high 180mm deep.
 - Universal mounting.
 - Gland plate access to shrouded sensor terminals.
- Warranty:
 - 12 months from delivery return to factory warranty.
 - Maintenance contract available.
- Approvals:
 - D1234-S/1476/3/H/452841.
 - D1236-S/1476/GF/1981/PA

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The Company's policy is one of continued improvement and it reserves the right to change specifications at any time without notice.