

MICROSTAR

A SECOND GENERATION MICROPROCESSOR

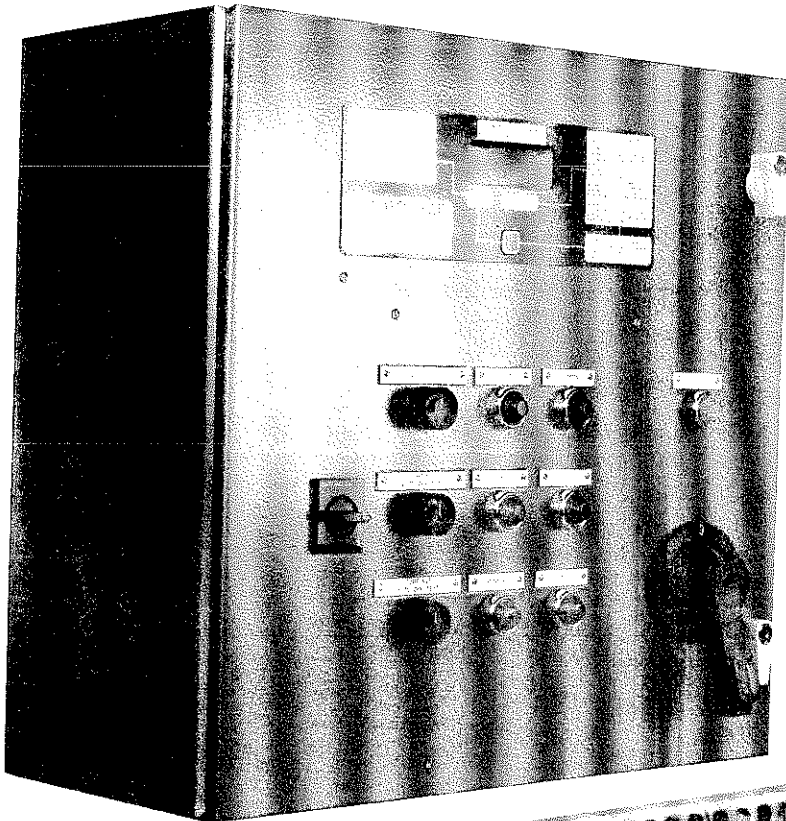
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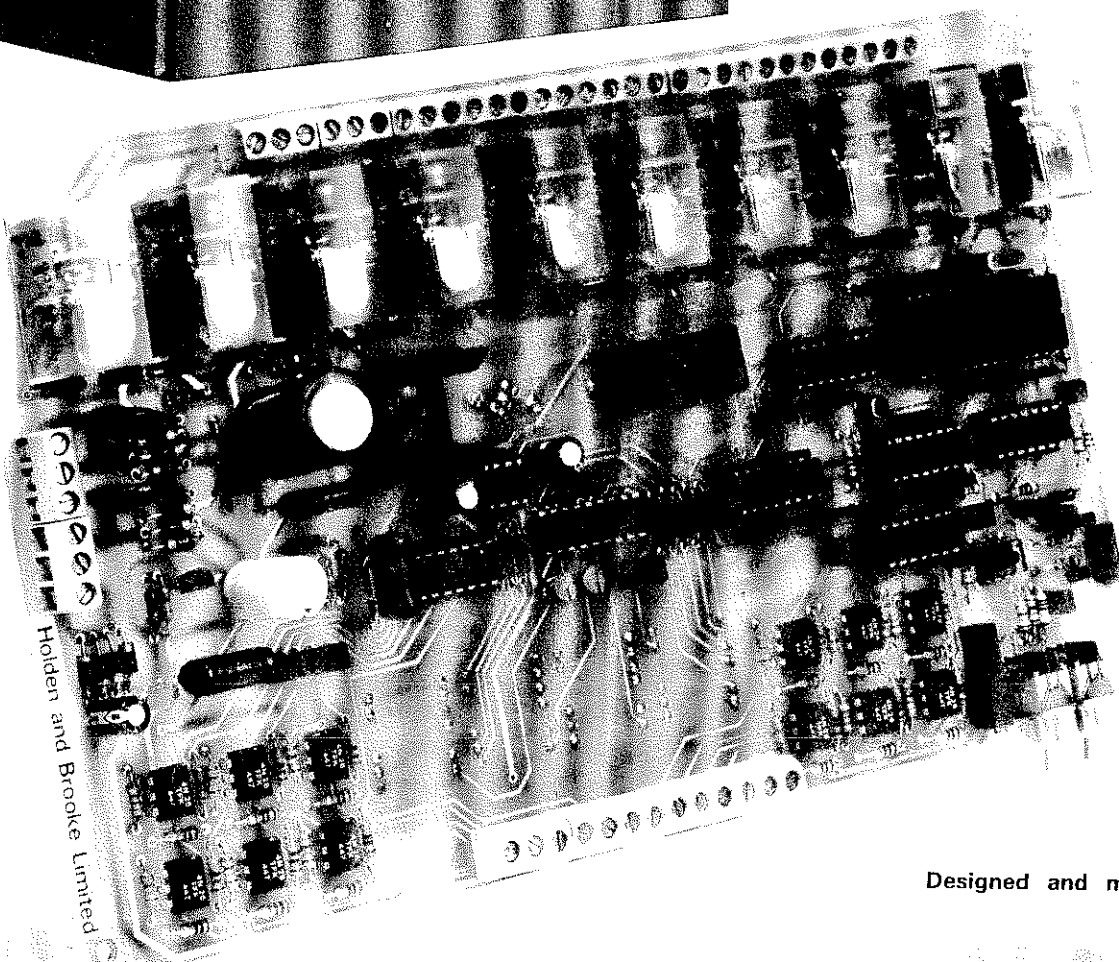


Holden and Brooke Limited

JANUARY 1988



MULTI-FUNCTION,
MULTI-PUMP
PROGRAMMABLE
CONTROL UNIT



Designed and made in Britain

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INTRODUCTION

The Microstar represents the second generation of microprocessor control units. The design and development has utilised the latest microprocessor technology and the most advanced manufacturing techniques. In developing Microstar, a capability to control all models from the extensive range of Holden and Brooke package sets and sealed system pressurisation equipment was required. The Microstar has this capability and more.

FEATURES

The programmes available to the Microstar allow the control of up to five pumps from a single pressure transducer. Three of the five pumps can incorporate star-delta starting with adjustable control of the star run up time. The four digit, seven segment light emitting diode display of Microstar will indicate system pressure settings. They will also indicate alarm conditions should the system malfunction and the alarm condition will indicate the problem area of the system.

A single multi-function button simplifies the call up registers and the manual re-setting of alarms. Microstar is completely protected against interference from electrical, magnetic or radio source. A multi-voltage transformer with power smoothing circuit is a built in feature.

Protection against damage from power failure is incorporated. In the event of an interruption to the electrical supply the Microstar shuts down in an orderly manner, saving the programmes and system settings in the large capacity, non-volatile memory. The memory does not require battery back up for memory retention.

Microstar employs up to 13 inputs to monitor set and system conditions, enabling the following alarms to be standard fittings:—

Internal processor fault; programme error; low pressure; high pressure; pumps tripped; pumps on test.

In addition the following can be included to suit the particular packaged pump unit or to meet a customer's preferences:—

Low water level warning; low water level danger; high temperature; pump start frequency.
Alarm conditions may be reset manually or automatically.

The Holden and Brooke Microstar programmes comply with H & S E Guidance Note PM5 and with the Department of the Environment's M & E 3 and Instruction D110. Advanced British microprocessor technology and production methods make it a completely reliable, versatile and compact unit measuring only 235 mm by 140 mm including all relays, transducer connections and processors.

Ten on-board relays are incorporated with 5 amp 240 volt contacts for output alarm signals to remote alarm panels, boiler relays and alarm bells. It has the advantage of being readily incorporated into building management systems without the need for an interface relay module.

Microstar incorporates an extensive test routine to check that all important on-board components are functioning correctly and these checks are carried out continually throughout the operation. Another programme check carried out automatically on initial power-up ensures that each individual set and system has been programmed correctly.

To suit varying system requirements, pump run times and delay between pumps starting can be altered. In addition, pumps are automatically cycled after every start-up to ensure optimum performance from every packaged set and pressurisation system under Microstar's control, or can be programmed to operate with a duty pump and standby.

HEAD OFFICE

Holden and Brooke Limited, Haverford Street,
Manchester M12 5JL, England. 061-274 4242
Telex: 667318 Fax: 061-274 2068

REGIONAL OFFICES

Southern
128 Malden Road, New Malden,
Surrey, KT3 6DD
01-949 3441

Northern
Haverford Street, Manchester,
M12 5JL. 061-274 4242

Scotland
112 Main Street, Milngavie,
Glasgow G62 6JN
041-943 1252

Northern Ireland
John Hind & Sons Ltd., Prince
Regent Road, Belfast, BT5 6RS
0232 792121