

Save time and money Fit the Universal-J

A cost effective service replacement for most thermostats and off cycle defrost refrigeration controllers



Designed to replace cooling and heating thermostats and off cycle defrost controllers

Just some of the models the Universal-J can replace

LAE

MTR11/T1RDS	MTR11/T1RES	SDU11/T1RES	SDU11/T1REBS	SDU112
LDU112	LDU151E	SDU12/T0REB	SDU12/T0RD	SDU12/T0RDC
SDU12/T0RES	LDU152E			

Carel

IR32S	CR32S	PJ32S
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Eliwell

EWPC901	EWPC902	EWPC961	IC901	IC902
ID961	ID961LX			

Every

EC3-120	EC3-130	EC3-131	EC3-133	FK202A
FK200X	FK201X/A	FK202T	FK200P	FK201Y/T
FK207A	FK250X	FK150P	FK151X	FK151A
FK515Y	FK151T			

Dixell

XR110C	XR120C	XR10C	XR20C	XT110C
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Teddington

EK-R31

AKO

AKO-14112/8	AKO-14123/9	AKO-14712/16
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Danfoss

EKC201-084B7005	EKC201-084B7011
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Beta

RD31	BL31	RC31
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SAE

DC31	RT31	RC31
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Intek

DK31	TK31	RK31
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Universal-J

- Easy programming via SMART parameter or Hot Key
- Includes spare encapsulated probe
- Also suitable for heating applications

Universal-J Simply making life easier



REFRIGERATION & AIR CONDITIONING

0121 666 4700 / 020 8655 7600

Dixell

The New Universal-J

A convenient, versatile and low cost solution when replacing cooling or heating thermostats or off cycle defrost refrigeration controllers.

The 32 x 74 mm format has become a common standard for electronic thermostats and off-cycle defrost refrigeration controllers, with the result that the service engineer can encounter a wide range of models and manufacturers. As a result sourcing an exact service replacement can be difficult and time consuming, not to mention confusing. Designed to replace the majority of such controllers in their most typical applications, the Universal-J offers a simple but effective solution and compliments it's "big brother", the Universal-R.

Applications - it replaces on/off thermostats, either for cooling or heating, as well as refrigeration controllers with off cycle defrost control

The Universal-J has a 20 amp operational relay and single probe input. It can work with either NTC or PTC industry standard probes as:

- An on/off refrigeration thermostat
- An on/off heating thermostat
- A combined refrigeration thermostat with off cycle defrost timer

Included is a visual high & low temperature alarm, a digital input configurable for external alarms - door switch - defrost - pressure switch - inverting action from cooling to heating function.

Size

Front fascia 32 x 74mm; depth 70mm. The Universal-J fits the same size cut out as the controllers it replaces.

Probe compatibility

The Universal-J is compatible with NTC or PTC probes commonly used by most other manufacturers, so whether you're replacing an LAE, Carel, Eliwell or just about any other thermostat or off cycle controller, you'll usually be able to use the existing probe.

Should you need to replace the probe, the Universal-J comes complete with a spare probe, which is of the latest fully encapsulated NTC type, having a range of -40c to +105c with 1500 mm leads waterproof to IP67.

Programming in 5 quick steps now even easier with direct access to "tC"

The instruction manual has a "Quick Start Up Section" with 5 x simple steps to get you started. The installer initially has direct access (without security code) to the "Smart" parameter tC, which programs the controller into one of the 3 basic types (see Applications). The security code activates itself shortly afterwards. All the installer does is to follow the programming guide and wiring instructions to finish the installation. Should more specific information be required, this is also contained within the supplied instructions.

Hot Key programming capability comes as standard, allowing a service engineer to instantly program the Universal-J to a given set of settings.

Power Supply

Like most of the 32 x 74mm controls it replaces, the Universal-J uses a 12 volt AC or DC supply. When replacing a mains voltage controller, simple install the optional mains transformer.

Other specifications

Front Fascia water protected to IP65. Control range maximum -50°C to +150°C dependant on probe being used. Display resolution to 0.1c; Accuracy better than 1% FS. Anti-tamper keypad protection. Compressor short cycle protection. CE approval. ABS self extinguishing housing; Ambient conditions 0°C to +60°C, humidity 20 to 85%RH; Relay ratings 20(8)A/230V. Screw terminals for 2.5mm max cables; Hot Key programming.

Ordering

Universal-J complete with 1 NTC probe type NG6, range -40°C to 105°C

Optional mains transformer: 220-240 volts AC to 12 volts AC

Optional low temperature PTC probe(s) type S6.S, range -55°C to +110°C

Optional high temperature PTC probe (for heating) type S6.SH, range up to 150°C

Optional Hot Key



Wiring Diagram

