TELEMETRY AND REMOTE CONTROL ACCESSORIES

Bulletin 264B

MODEL TSK-3A TEMPERATURE SENSING KIT

Providing an accurate means of measuring transmitter building inlet, exhaust, or similar air temperatures, the TSK-3A functions with all current Moseley Associates Remote Control and Automatic Logging Systems. A truly linear indication of temperature is provided —no conversion table or graph is required when read on an appropriate analog meter scale or digital system. The TSK-3A senses air temperatures of -20°C to +60°C. The temperature sensing element within the TSK-3A is socketed enabling extension from the unit up to 25 feet. A single-conductor shielded cable with RCA phono connector are used for this extension. When the sensing element is extended, temperatures of -40°C to +80°C may be observed. A power supply is included for operation from a 120/240 VAC 50-60 Hz power source.

MODEL TLK-2 TOWER LIGHT KIT

Designed to monitor AC currents, this sampling kit can be used for observation of tower light circuits or any other AC current. Inductive sampling by means of a current transformer enables sampling over a wide current range. As a current transformer is used, it is not necessary to make a physical connection to the circuit being sampled.

MODEL LVK-3 LINE VOLTAGE KIT

The LVK-3 enables observation of AC power mains or other AC power circuits. AC voltages in the range of 120 VAC to 440 VAC may be sampled by the LVK-3.

MODEL MBB-1 UNIVERSAL PLATE CURRENT KIT

The MBB-1 can be used to sample either plate current or plate voltage. It is particularly suited to sample a circuit where neither side is at ground potential, or where a positive ground is employed. This unit is designed to operate within ±15% of the normal plate voltage or current. The MBB-1 will withstand peak voltages of 10,000 VDC above ground potential. External shunt or series resistance required.

MODEL RFK-1 AM RF VOLTAGE KIT

This unit is an RF voltage-to-DC converter and is useful for sampling common-point or antenna base currents of standard AM broadcast or HF transmitters. The input coaxial cable functions as one leg of a capacitor voltage-divider network to facilitate sampling a wide range of RF voltages. The output is connected to the Remote Control System and is a DC voltage proportional to the antenna or feedline voltage.

MODELS RFK-2 AND RFK-3 FM RF VOLTAGE KITS

These kits are designed to sample the power output of FM or TV transmitters in an unpressurized section of transmission line. The RFK-2 is designed for a 3-1/8" line, and the RFK-3 is designed for a 1-5/8" line. These units are supplied with BNC-type output connectors so that shielded line may be used to minimize stray RF pickup on the sampling line to the telemetry system. Stainless steel, screw-lock straps are provided for attaching the unit to the line.

MODELS PVK-1A, PVK-1B AND PVK-2 PLATE VOLTAGE KITS

Plate voltages from 1kV DC to 20kV DC may be sampled by these kits. These units consist of a well-insulated resistor network. The PVK-1A samples 1-3kV DC; the PVK-1B samples 3-10kV DC; and the PVK-2 samples 10-20kV DC.

MODEL MMA-1 MODULATION MONITOR ADAPTOR

The MMA-1 provides a DC voltage output proportional to the audio output of any modulation monitor. Functioning as a peak audio detector, response is limited only by the ballistics of the remote analog meter. When used with FM or TV aural monitors, internal strapping provides "repre-emphasis" for accurate indications of modulation. Input requirements are 600Ω balanced, -20 to +10 dBm. Power is derived from the Model TRC-15A analog Remote Control System, earlier Moseley analog systems, or an externally regulated supply of + and -10 VDC at 15 ma.

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MODEL DCA-2 DC AMPLIFIER

The DCA-2 DC Amplifier enables the sampling of low-level or sensitive DC circuits such as are found in monitoring equipment and RF reflectometers. Having a floating input, the DCA-2 can accept a positive, negative, or isolated-from-ground input.

Two separate outputs are provided by the DCA-2. The first of these is simply a linear amplification of the input. Gain of the DCA-2 is such that 10μA, applied to the impedance strappable input (1 or 5kΩ), will produce an output of 1.5 VDC, nominal. The second output has been processed by amplitude-squaring circuitry to perform the necessary linearity conversion to enable direct reading of power on digital or linear-scale equipment. Gain and zero (bias or offset) controls are provided.

The operating temperature range of the DCA-2 is 0°C to +60°C, with power requirements of 120/240 VAC, 50-60 Hz. An optional 19-inch, multiple unit, rack adaptor is also available. Individually, the DCA-2 is small-sized; 23 cm (9 inches) x 15 cm (6 inches) x 5 cm (2 inches).

MODEL RMK-1 REVERSIBLE MOTOR KIT

The RMK-1 contains a reversible 120 VAC, 1 rpm motor. Coupling can be made directly to a 1/4" shaft or through the 6" flexible shaft which is supplied with the unit. The motor develops 120 inch-ounces of torque and incorporates an adjustable clutch to prevent damage from overtravel. A local-control push button is an integral part of the assembly. The RMK-1 can be supplied for 230 VAC, 50-60 Hz operation on special order.

MODEL CIP-1 CONTROL INTERFACE PANEL

The Model CIP-1 Control Interface Panel provides for the use of slave or repeating relays with Moseley Associates Remote Control Systems. Only 5-1/4" (13.4 cm) of standard 19" (48.3 cm) rack space is required. Seven relay sockets are mounted on the Model CIP-1 Control Interface Panel. These sockets accept plastic-enclosed, plug-in, magnetic latching or momentary relays. Barrier-strip type screw terminals are provided for connection to the relays. Both relay sockets and contacts on all relays are rated to accept loads of up to 10 amperes at 28 VDC or 120 VAC. The silver-cadmium oxide contacts of the relays are rated for continuous operation. Relays are available for operation from 24 VDC and 120 VAC sources.

ORDERING INFORMATION FOR PLUG-IN RELAYS

Type 5480DC Relay, DPDT, momentary closure, coil for 24 VDC.
Type 5480AC Relay, DPDT, momentary closure, coil for 120 VAC.
Type 5481DC Relay, SPDT, magnetic latching, coil for 24 VDC.
Type 5481AC Relay, SPDT, magnetic latching, coil for 120 VAC.

Note: Power supplies, line cords and other required wiring not included.

MODELS DCP-1 AND DCP-2 DC POWER SUPPLIES

As an accessory to the CIP-1 Control Interface Panel, the DCP-1 and DCP-2 Power Supplies provide 24 VDC for the Type 5480DC and Type 5481DC Relays. The DCP-1 provides an output of 24 VDC at 1 ampere and has seven parallel outputs corresponding to the seven-relay capacity of a single CIP-1 Panel. The DCP-1 is rack-mounting requiring only 3-1/2" (8.9 cm) of standard 19" (48.3 cm) rack space. The DCP-2 is identical in size to the DCP-1 but contains two DC power supplies for those applications requiring 2-ampere capacity. Input requirements to either unit are 120/240 VAC, 50/60 Hz.

Specifications subject to change without notice.

MOSELEY ASSOCIATES, INC.
A FLOW GENERAL COMPANY
SANTA BARBARA RESEARCH PARK

111 CASTILIAN DRIVE
GOLETA, CALIFORNIA 93117
(805) 968-9621
TELEX: 658448 CABLE: MOSELEY