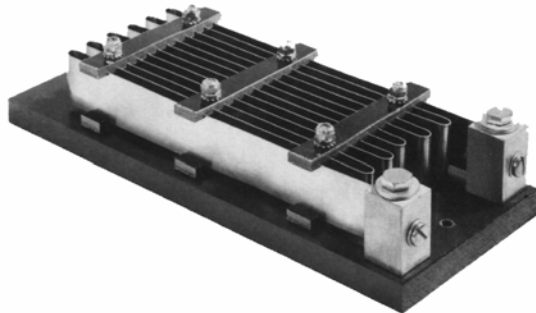




DynAmp

SHUNTS



Description

Shunts are low ohmic value, current sensing resistors. DynAmp supplies individual and totalizing shunts that may be tailored to specific full scale bus current requirements.

Application

These temperature-stable, four-terminal, resistors can be used in series with the LKP or LKB meter unit current loop outputs or to convert other current signals for voltage driven devices such as ampere-hour integrators, panel meters, local and/or remote recording ammeters, process control computers, current alarm systems, rectifier control systems, and signal comparators.

Application Considerations

1. Ensure that the shunt selected is electrically compatible with the metering system supplying the high current signal and the system or equipment which is to receive the voltage output signal.
2. Shunt resistance should be high enough to provide an acceptable signal-to-noise ratio but low enough that the shunt (and associated wiring) does not exceed the burden limits of the metering system, and dissipate excessive heat. For high signal output voltages, isolators are recommended.
3. DynAmp shunts are able to be calibrated as a part of the LKP or LKB system. This yields 0.1% overall accuracy.

Shunt Type Classifications

Standard: Resistance and maximum current values compatible with DynAmp meter units (See table below). One of these is mounted internal to the meter unit and included with the normal LKP or LKB system.

External: Accessory form of shunt assembly used outside a meter unit enclosure with barrier strip. May be used on a single unit or to totalize two meter units.

Totalizing: Shunt used to sum currents from multiple meter units; a standard shunt mounted on an anodized aluminum panel with terminal strips.

Specifications

Configurations

Measurement Tolerance ±0.1%

Temperature sensitivity

Listed shunts are ±20 ppm/°C or better

Non-standard ohmic value shunts may be available on request.

Specifications subject to change without notice

Ordering Information

1. Please specify part number:
2. Complete Shunt Worksheet BEN055.

Internal Item Number	28695	28696	28697	28698
External Item Number	14319	26093	15012	TBD
Totalizing Item Number	TBD	40160	4164	TBD
Shunt Resistance (Ohms)	0.5	0.05	0.005	.005
Max. Input Current (amperes)	4	13	26	70
Bus Current (kA)	6 to 12	15 to 60	80 to 130	155 to 150
Voltage Scaling (mV/kA)	100	10	1	1
Max. total bus kA	12	60	130	350