

## FEATURES

- **Analog or digital modules**
- **Small, rugged, and economical**

The Model 45.50 Compact Remote Station (CRS) is a unique enclosure system that utilizes a simple, versatile method of mounting and electrically connecting the CRS seismic modules. The resulting package is small, lightweight, and provides exceptional analog or 12-bit or 16-bit digital performance at an economical price.

The CRS System consists of amplifiers, VCO's, I/O systems, multiplexers, digitizers, and radios. Electrical connection between the modules is provided through a ribbon cable harness within the enclosure.

The 45.50 provides internal mounting for up to eight CRS modules and two radio transmitters or receivers. The complete enclosure is small enough to fit inside a typical seismometer vault.

## COMPACT REMOTE STATION

### MODEL 45.50



# COMPACT REMOTE STATION (CRS) MODEL 45.50 SPECIFICATIONS

## EXTERNAL CONNECTORS

|                           |   |
|---------------------------|---|
| <b>Seismometer Inputs</b> | 1-3, Crouse-Hinds feedthru bushing          |
| <b>Power</b>              | 1, Crouse-Hinds feedthru bushing            |
| <b>Data Out</b>           | 1, Crouse-Hinds feedthru bushing (optional) |
| <b>RF Input/Output</b>    | 1-2, Type N female (optional)               |

## INTERNAL CONNECTORS

|                 |  |
|-----------------|--|
| <b>Type</b>     | Ribbon cable   |
| <b>Quantity</b> | Connectors for up to 8 CRS modules                             |
| <b>Optional</b> | 1-2, DB-9, Input/Output connector for transmitter and receiver |

## PHYSICAL CHARACTERISTICS

|  |  |
|--|--|
| <b>Capacity</b>  | Up to 8 CRS modules and 2 RF transmitters or receivers       |
| <b>Compact Mounts</b>  | 3 each Model 45.10, furnished (one required for each module) |
| <b>Height</b>  | 35.6 cm (14 in.)   |
| <b>Width</b>   | 30.5 cm (12 in.)   |
| <b>Depth</b>   | 15.25 cm (6 in.)   |
| <b>Weight</b>  | 10.8 kg (23.8 lb.)   |
| <b>Typical Weight, with 8 CRS modules and 1 rf transmitter</b> | 12.5 kg (27.5 lb.)   |

## SAMPLE CONFIGURATIONS

### THREE COMPONENT ANALOG STATION, RF TELEMETRY

#### 45.50 CRS Enclosure, with the following:

- Three, 42.70 Seismic Amplifiers
- Two, 46.32 VCOs
- One, 46.32-1 VCO with Multiplexer
- One, PC-120 Pulse Calibrator
- One, IO.40-1 Input/Output Module
- Five, 45.10 Compact Mounts
- One, T-200 VHF/UHF Transmitter
- One, 45.20 Radio Mount
- One, RC-10 Internal Coax Cable

### THREE COMPONENT 16-BIT DIGITAL STATION, RF TELEMETRY

#### 45.40 CRS Enclosure, with the following:

- One, PF.70 Preamplifier/Filter
- One, 49.65 16-bit Digitizer
- One, IO.45-1 Input/Output Module
- One, DTS-200 VHF/UHF Transmitter
- One, 45.20 Radio Mount
- One, PC-120 Pulse Calibrator
- One, RC-10 Internal Coax Cable

### THREE COMPONENT ANALOG STATION, TELEPHONE TELEMETRY

#### 45.50 CRS Enclosure, with the following:

- Three, 42.70 Seismic Amplifiers
- Two, 46.32 VCOs
- One, 46.32-1 VCO with Multiplexer
- One, PC-120 Pulse Calibrator
- One, IO.40-1 Input/Output Module
- Five, 45.10 Compact Mounts
- One, Phone line adapter
- One, 45.25 Special Mount

### RADIO REPEATER STATION

#### 45.50 CRS Enclosure, with the following:

- One, R-150 VHF Receiver
- One, T-200 VHF Transmitter
- Two, 45.20 Radio Mounts
- Two, RC-10 Internal Coax Cables