



FEATURES

- 4 additional axes can be controlled with second standard Antenna Range Controller (ELE-ARC)
- Control of locking brake, used for braking Y-axis motion when powered off
- Serial interface control from host PC running NSI2000 software
- Forward/reverse limit switch interface for each axis
- Stepper motor control for motors up to 7 amps
- 4-axis integral motor control
- Safety interlock system

DESCRIPTION

The Intelligent Measurement Controller (ELE-IMC) is a 4-axis stepper motor control device allowing control of up to 4 motion stages. In a typical planar near-field antenna measurement system, these axes would enable computer-controlled motion in X, Y, Z and POL (probe rotation) directions. Below is a block diagram of such a typical antenna measurement system, showing how the ELE-IMC connects to the other system components. The ELE-IMC is typically controlled by an RS232 serial link to the NSI-MI measurement workstation. The ELE-IMC can control 4 axes directly, but can also control 4 additional axes using TTL step and direction commands to our conventional Antenna Range Controller (ELE-ARC).

IMC IN TYPICAL APPLICATION

