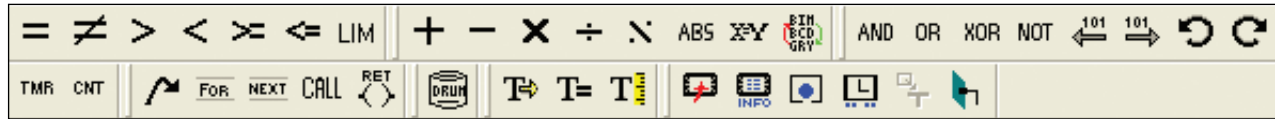# 32 Bit Floating Point Advanced Math
Add, Subtract, Multiply, Divide, Modulo, Absolute, Square root, Log, Trignometric, Binary to BCD to Gray Code Conversions

Mathematical Tool Bar

This incredible distributed I/O modular PLC supports 32 bit floating point, 32 bit signed & unsigned double integer, 16 bit signed and unsigned integer data options which support all mathematical functions such as Addition, Subtraction, Multiplication, Division, Modulo & Absolute. It also supports data conversions from binary to BCD or gray code. Further it has advanced mathematical operations involving square root, logrithmic & trignometirc functions .
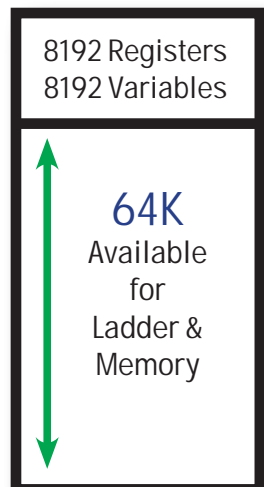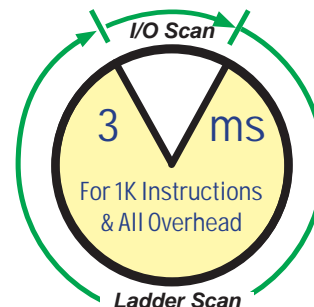
Tough'n'Smart™

PLC Performance You Will Find Only in PLCs Costing Lakhs More!

64k Byte User Memory

Most Micro PLCs have only a limited 8-16k memory. But not this souped up PLC! Some of the things you can do with this 64k byte memory:

• Store 2000 Messages
• Store 500 20 Variable Recipes
• Collect 10,000 Four Variable Data Points

I/O Scan

3 ms

For 1K Instructions & All Overhead

Ladder Scan

8192 Registers
8192 Variables

64K
Available for Ladder & Memory

User Program Stored in Flash
User program saved in non volatile Flash memory instead of battery backed up RAM. It safeguards the user program in the event of loss of battery power in the Tough PLC

When is Flash backup done?

Flash backup occurs automatically when either a user program is downloaded to the Tough PLCs or after one or more online changes are made and the program loader is closed.

When is ladder logic Restored from the Flash Backup?

On power up, Tough PLC compares ladder logic in RAM with the one stored in the FLASH. If it is different, the program is restored from FLASH to the RAM.