R400 Series MAX Application Solutions

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programmable indicators

The R400 Series indicators now offer programmability through our Lua module in addition to the 8 standard application firmware that is also available – this combination of programmability and standard application firmware means an R420 or R423 can be configured to suit a large number of single scale, static weighing applications. As an introductory offer, R400 Series MAX is available were a dealer defines the customer application and for a fixed price Rinstrum will provide an R400 series indicator configured according to the application for a set price.

"If the hardware can do it then we will take care of firmware"

1. Dealer Responsibility

The Dealer is to work with the customer to fully understand the application and its hardware requirements (communications, input/output, analogue, scale input etc). The offer is for a single R400 indicator that has 4 slots. One slot is used for the Lua/Ethernet Module and if AC power is used slot 1 will be used – so in this case only 2 slots are available for I/O and communications. The Dealer is responsible for:

- Application and Hardware Specification (and that the application is within the R400 hardware specs.)
- Questionnaire R400-756 to be completed by Dealer with above information
- Installation and commissioning

2. Rinstrum Responsibility

- Configuring the R400 indicator using either standard firmware or Lua scripting as required to meet Application Specification provided by Dealer.
- Configuring the hardware according the Hardware Specification and Application Description – Questionnaire R400-756 as provided by the Dealer.
- Up to 1 hour support during Dealer commissioning

3. Pricing

A MAX unit in either ABS or Stainless Steel, including configuration according to Dealer provided specification is provided at a set price – please enquire with your local Rinstrum office for the pricing of each unit.

4. What is possible with R400 using a Lua module?

An R400 indicator enhanced with the Lua module can handle an extensive range of applications. It allows:

- Direct control of the R400 LCD display
- Custom key handling and local timers
- Direct reading and control of hardware (I/O, serial ports and analog)
- Ethernet TCP and UDP messaging and SQL database connection
- Local File system using the M4223 on-board flash memory or connect to USB memory sticks.
- USB support of: hubs, printers, keyboards, barcode scanners and serial ports (including Bluetooth)

Rinstrum indicators are built on foundation firmware with 1000's of hours R&D investment. The Lua module's custom scripts leverage this solid baseline firmware as a starting point. For example, the technician doesn't need to implement set-points with hysteresis; those features are already there. How set-points are used can be tailored to the application. Less time scripting using time-proven functionality, reduces risk while ensuring greater confidence in the delivered system.

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5. M4223 Lua Module Specification

- Ethernet and USB Port
- Embedded Linux Operating system
- Web Interface
- Lua 5.1.5
- LUA Multiplexer (for multiple connections to a single R400 device)
- 400MHz 32bit ARM9 processor
- 64 MB SDRAM, 64 MB Flash
- Requires Lua enabled firmware in the R400 indicator

6. How do I order?

If you have an opportunity that you think may be suitable, complete the questionnaire (Document R400-756) and contact your local Rinstrum Sales Engineer to discuss the next steps. The Sales Engineer will confirm the suitability from the information provided and request clarification if necessary.

7. What are the benefits for a Dealer?

Once a dealer has understood the application and its hardware requirements, the actual programming and configuring of the R400 unit can be handed off to Rinstrum.

Confidence with quoting and profitability for the Dealer and their sales team

(*Available as an introductory offer only, offer may be withdrawn at any time by Rinstrum)