

SECTION 40 80 00
LIFECYCLE ASSET MANAGEMENT SYSTEM

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Lifecycle management system available via a web enabled system. The system shall contain records related to initial factory settings, subsequent field calibrations, and a full history of calibrations, service and software related to the specific device(s).

1.02 SUBMITTALS

- A. Software tool complete with features and functions which connects to suppliers databases to display up-to-date data; accessible worldwide via internet from any computer.
- B. Operating manual.
- C. Secure username and password for online login.

1.03 MAINTENANCE

- A. Product support shall be available 24 hours a day, 7 days a week.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. One of the following:
 - 1. Endress+Hauser- W@M Portal Professional version 3.0 or higher

2.02 PRODUCT

- A. Engineering: System shall provide a convenient selection and sizing tool for planning processes, alleviating daily workload.
- B. Procurement: Electronic business processes shall allow optimization of business by shortening procurement. Online access shall offer standard products, service, consumables and spare parts.
 - 1. Products shall be able to be fully configured in a fast and simple manner, availability and prices shall also be available.
 - 2. CRM system shall provide quick responses to inquiries and status of order or shipment shall be immediately monitor-able.
- C. Operations Installed Base Assistant: unique patented tool which effectively integrates the instruments of the entire installed base into lifecycle management system environment. System shall aim to decrease plant costs and increase plant availability. All Endress+Hauser information is automatically available, other manufacturers' instruments and information can be added manually.

1. Reproduce the exact structure of your plant by mapping locations or sub-locations, applications, loops and bus systems. All easy to handle and view via tree navigation for an easy 'walk-through' the entire plant and gain an overview of your installed base of instruments.
2. When new Endress+Hauser instruments are purchased they are automatically populated into the installed base system, other manufacturers' can be added manually as well.
3. Spare parts: Compatible parts are listed automatically in exploded drawings for easy identification with easy links to online shopping.
4. Documentation management: Complete documentation shall be available on the system, as well as the option to attach additional documents.
5. Logbook: All events for the device shall be logged by the system.
6. Plant structure easy navigation: 'Walk through' of plant shall be available of plant, as well as an overview of installed base of instruments. There shall be a tree view navigation mapping the structure of the plant.
7. Key performance indicators: A matrix shall display relative process criticality and risk of maintainability to improve maintenance.
8. Task scheduler: Optional task scheduler shall be available to assist with maintenance management activities.
9. Product Status List (PSL): provides information on the age of the instrument, the implemented maintenance work and proposals for respective successor.

2.03 OPTIONAL ACCESSORIES

- A. FieldCare: software tool for instrument configuration and asset management with innovative functions.
 1. System shall have software to store data such as engineering information and data sheets, operating and assembly instructions, documents including test reports and approval certificates.
 2. Software shall be up to date and available in multiple languages.
 3. Commissioning: System shall be configured to optimize process; compatible data shall be automatically transferred and recorded, otherwise manually inputted.
 4. Condition Monitoring: extended diagnostic function which alerts users in the even the instruments don't work properly due to internal reasons or a change in process conditions.
- B. CompuCal: high-performance calibration and maintenance software which helps to automatically control all preventative measures concerning field instruments, saving costs and increasing availability of system.
- C. W@M Portal training.

- D. Installed Base Audit:
1. Shall easily allow focus to needed maintenance efforts according to available resources and production requirements.
 2. Shall help to decrease complexity of older devices with different brands of equipment and large variety of instrument types.
 3. Shall pin-point out-of-date plant documentation not reflecting actual status.
 4. Shall define necessary actions to handle higher demands on production quantity and availability.
 5. Shall fulfill highest safety requirements.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Ensure proper functioning of internet and computer.
- B. Check proper version of browser is installed and ensure that firewalls are not obstructing the browser.
- C. Enter proper username and password correctly, supplied by the manufacturer.