# SELF-CONTAINED ELECTRONIC LOCKS

## Electronic Security System Description

### General: Provide a contactless RFID electronic lock system, complete and including without limitation, the following components:

#### Lock Technology: RFID (radio-frequency identification)

#### Proximity activated

(Specifier to choose all that apply)

##### Key Card

###### Mifare Classic

###### Mifare Plus

###### Mifare Ultralight C

##### Bluetooth Low Energy (BLE)

##### Network Communications Capable

### Approved Manufacturers:

#### “QUANTUM Series”; dormkaba USA Inc.

(Specifier to choose all that apply)

##### Quantum RFID (Round Reader)

##### Quantum II RFID (Square Reader)

##### Quantum III

##### Quantum IV

##### Quantum Pixel

## Electronic Mortise Locksets –

### Provide electronic mortise locks which incorporate an RFID reader and are tested and approved by BHMA for ANSI A156.13, Series 1000, operational grade 1 extra-heavy duty, are UL10C listed, and appear in the “Certified Products Directory” of BHMA.

### Locksets shall be UL certified mechanical operational testing to 4 million cycles minimum.

### Lockset manufacturer’s factory shall be a certified 9001-Quality Management and 14001-Environmental Management facility.

### Provide locksets with functions and design as indicated in the hardware groups

#### Fit ANSI A115.1 door preparation

#### ANSI grade entry/egress/door ajar tracking mortise option available.

#### Solid, one-piece, 3/4-inch (19mm) throw, anti-friction latchbolt made of self-lubricating stainless steel

#### Deadbolt functions shall have 1 inch (25mm) throw bolt made of hardened stainless steel

#### Latchbolt and Deadbolt are to extend into the case a minimum of 3/8 inch (9.5mm) when fully extended

#### Auxiliary deadlatch to be made of one piece stainless steel, permanently lubricated

#### Provide standard strike plate. Custom strike plate options are also available. Verify strike requirements.

#### Lever handles must be of forged or cast brass, bronze or stainless steel construction and conform to ANSI A117.1.

#### Lock shall have self-aligning, thru-bolted trim

#### Levers to operate a roller bearing spindle hub mechanism

#### Mortise cylinders of lock shall have a concealed internal setscrew for securing the cylinder to the lockset. The internal setscrew will be accessible only by removing the core, with the control key, from the cylinder body.

#### Spindle to be designed to prevent forced entry from attacking of lever

#### Electronic override standard. Manual Key Override (Specifier Note – MKO only available on select models) - Provide with 7-pin removable and interchangeable core cylinders

#### Core face must be the same finish as the lockset.

#### For Finish and Lever design see hardware sets.

#### Simultaneous retraction of deadbolt and latchbolt (1" steel dead bolt with security pins and 3/4" anti-friction latch bolt).

#### Each lever to have independent spring mechanism controlling it.

#### Exterior door applications shall have special weather protection standard.

### Resident Electronic Mortise Locksets shall be opened by a correctly coded credential, upon placement of credential on/near the RFID reader. Use of a newly issued credentials shall automatically re-key the lock to void the previous credentials, commonly known as No Touring. Resident credentials shall additionally self-cancel by date and time automatically. Perimeter and Common area door readers to allow authorized Resident credentials. Canceled cards must not access perimeter reader.

#### Four (4) AA battery pack.

#### Non-volatile memory lock will not lose program even if the batteries are removed.

#### Four (4) levels of master/staff credentials; 20 masters per level.

#### Staff credentials shall be individualized to identify individual card holder via lock audit.

#### All credentials are time and date limited.

#### Deadbolt override credentials for emergency level.

#### Intelligent power shutdown feature. Batteries remain deactivated until credential is presented. Master level credential will activate a flashing LED “Low Battery” light warning system 30 days in advance of battery failure.

## Software - Resident Locking System, Enrollment/Front Desk System

### Basis-of-Design Product: Subject to compliance with requirements, provide “Community” Software by dormakaba USA Inc.

### System shall be designed for the following features:

##### Password access to headend system

##### Unlimited Transaction log controlled by archiving settings.

##### Lock Audit transactions of minimum 172 and a maximum of 4000.

##### Encoder must encode and validate credential

##### Encoder must be able to "read a credential"

### Microprocessor based Enrollment/Front Desk Controller System shall be a PC based network RFID encoding, handheld unit with lock integration (LPI) feature. Include the following:

#### Main PC Base computer and support hardware.

#### 2 Each Network RFID credential encoder station and power supply. (1 Each is standard.)

#### 1 Each Basic System Items: Manuals, etc.

#### Credentials: Generic reusable plastic RFID Credentials. Quantity: [Specifiers note PICK ALL APPROPRIATE AND INCLUDE QUANTITY]

##### RFID cards – [sold in packs of 500]

##### Fobs and wristbands – [sold in quantities of 25]

##### BLE Virtual Credentials – [Different quantities are available.]

### Handheld Unit: Password protected and be able to program up to 300 locks. In addition HH6 associated with the Community Software System. This unit will be used for lock interrogation, diagnostics and programming. Program shall include:

#### Set time clock

#### Perform diagnostic check

#### Interrogate up to last 172-4000 entries: time, date and card identification.