

OEM Security Supplement

1. WHAT IS OEM SECURITY

OEM Security is an orderable option which allows an OEM to develop an application in the 2704 controller then apply security codes to prevent that application from being copied or cloned. This particular feature is normally applicable to OEMs who wish to develop a controller specific to their machine or process.

The security is applied to certain areas only of the instrument. These areas are:-




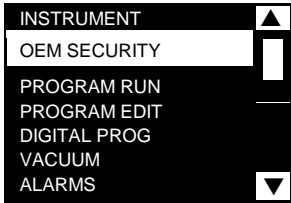



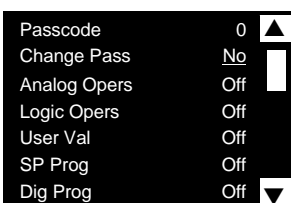






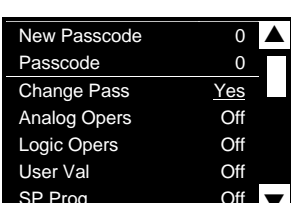



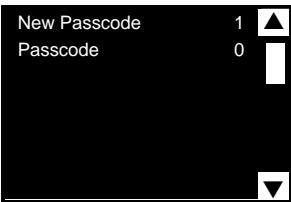



- Analogue Operators Page
- Digital Operators Page
- Setpoint Programmer Page
- Digital Programmer Page
- User Values Page
- Up to three user configurable areas defined between high and low modbus address limits

The parameters for OEM Security are found in configuration level immediately following the INSTRUMENT page, but only appear if the option has been ordered.






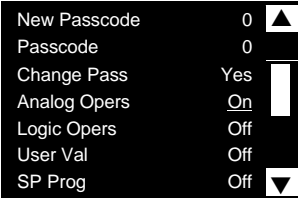



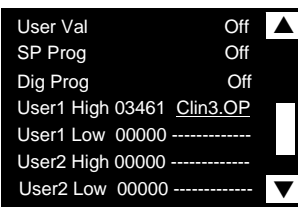




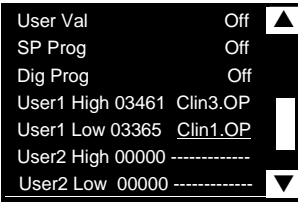

2. TO SET OEM SECURITY PASSCODE

The procedure in this section is written for a new instrument where the OEM password defaults to 0.

Do This	This Is The Display You Should See	Additional Notes
<p>1. From any display press  as many times as necessary to access the page header menu</p> <p>2. Press  or  to select 'OEM SECURITY'</p>		
<p>3. Press  to display the list of sub-headers</p> <p>4. Press  to select 'Change Pass'</p> <p>5. Press  to edit 'Change Pass'</p>		<p>In a new instrument the password defaults to 0.</p> <p>Any parameter can be selected in this state</p>
<p>6. Press  or  to 'Yes'</p> <p>7. Press  and  together to scroll back to 'New Passcode'</p> <p>8. Press  or  to enter the new numeric code</p>		<p>The parameter 'New Passcode' is added to the display</p>
<p>9. Press  to scroll to 'Passcode'</p> <p>10. Press  or  to enter the correct passcode</p>		<p>The display chages back to that shown above but with the new passcodes showing.</p> <p>The parameter 'Change Pass' can now be turned to 'No' again to enable the OEM Security feature.</p> <p>Press  followed by  or </p>

3. TO SET THE SECURE AREAS

It is now possible to choose pages and groups of parameters which you do not wish to be available over digital communications.

Do This	This Is The Display You Should See	Additional Notes
<p>11. From the previous display press  to select a page to be secured</p> <p>12. Press  or  to select 'On'</p>		<p>Other areas which can be set in the same way are:-</p> <ul style="list-style-type: none"> Logic Operators User Values Setpoint Programmer Digital Programmer
<p>13. To secure a range of parameters, press  to select 'User 1 High'</p> <p>14. Press  or  to choose the modbus address of the highest parameter in a range</p>		<p>You may select the Modbus address using the numerical address or by pressing  again to select the address by parameter name. The parameter names are listed in the Engineering Manual Appendix D for the 2604 or 2704</p>
<p>15. Then press  to select 'User 1 Low'</p> <p>16. Press  or  to choose the modbus address of the lowest parameter in a range</p>		<p>In this example the parameters defined by the modbus addresses 03365 to 03461 (ie the range of parameters Clin1.OP to Clin3.OP) cannot be cloned or read over digital communications.</p>
<p>17. The above two steps can be repeated for two more ranges defined by User 2 High and Low and User 3 High and Low</p>		<p>In this example parameters DI01 to DI07 cannot be cloned or read over digital communications.</p> <p>Note: the parameters can be read through the controller display</p>

When the instrument is power cycled it will always start up with the passcode defaulted to 0. The passcode, therefore, must be entered if access to the OEM Security feature is required.



Note: If an incorrect security code is entered more than five times the OEM Security feature is disabled. Contact your supplier .

4. CLONING AN OEM SECURE INSTRUMENT

The OEM will wish to clone the instrument which has been generated. This may be done by first entering configuration level, as described in the 2604 and 2704 Engineering Handbook, then entering the correct OEM secure passcode.

At this point all parameters are available over digital communications and via the user interface.

5. FURTHER ADDITIONS TO INSTRUMENT SECURITY

The Inst_mode parameter may be accessed over digital communications. Writing to this parameter puts the instrument into configuration mode. When OEM security is enabled this parameter will now be secure.

In addition the access level passcodes are available over digital communications. These parameters will also be secure when OEM security is enabled.

6. RELATED HANDBOOKS

- 2604 Engineering Handbook Part Number HA026761
- 2704 Engineering Handbook Part Number HA026933