

Distribution Automation Applications Matrix

APPLICATION	DESCRIPTION	TELEMETRIC PRODUCTS	AREAS of INTEREST
RECLOSERS	MONITOR & CONTROL RECLOSERS	DNP-RTM for Recloser Controls with DNP3 such as Cooper F6, SEL351/651, ABB PCD2000 MicroRTU for digital I/O and analog inputs	<ul style="list-style-type: none"> Operations Engineering Reliability Planning
CAPACITOR BANKS	MONITORING & CONTROL CAPACITOR BANKS <ul style="list-style-type: none"> Cost-effective two-way capacitor automation 	DNP-RTM for cap banks with DNP3 controls such as S&C IntelliCAP PLUS, QEI, HD Electric TC032 for central control and monitoring voltage/neutral current	<ul style="list-style-type: none"> Operations Engineering
LINE SWITCHES and SECTIONALIZERS	AUTOMATE DISTRIBUTION LINE SWITCHES <ul style="list-style-type: none"> Extend SCADA to switches currently not automated or where automating is difficult to cost justify Improve reliability, minimize outage durations, save overtime labor and reduce lost revenue 	MicroRTU DNP-RTM for switch controllers with DNP support	<ul style="list-style-type: none"> Operations Engineering Reliability Planning
VOLTAGE REGULATORS	AUTOMATE VOLTAGE REGULATORS <ul style="list-style-type: none"> As a load management strategy Monitor regulator reliability and operation 	DNP-RTM for regulators with DNP controls such as Siemens MJ-XL, Beckwith 2001B TVM3 for passive voltage monitoring	<ul style="list-style-type: none"> Operations Marketing/Sales Customer Service Engineering
PAD MOUNT SWITCHGEAR	AUTOMATE PAD MOUNT SWITCHES MONITOR AUTOMATIC SOURCE TRANSFER SWITCHES FAULT INDICATORS	MicroRTU DNP-RTM for switch controllers with DNP support	<ul style="list-style-type: none"> Operations Engineering Reliability
DEMAND RESPONSE	AUTOMATED LOAD MANAGEMENT <ul style="list-style-type: none"> Automated load shedding Control of remote generation 	MicroRTU RTM for C&I Meters with load control outputs	<ul style="list-style-type: none"> Operations Demand Management Planning
LINE VOLTAGE and POWER QUALITY MONITORING	MONITOR LINE VOLTAGE: POWER QUALITY MONITORING <ul style="list-style-type: none"> Permanent and momentary interruption reporting Over/Under voltage monitoring Hydraulic recloser monitoring End of Line Monitoring Key Account Monitoring 	TVM1 & TVM3	<ul style="list-style-type: none"> Operations Reliability Customer Service Planning
REMOTE SUBSTATIONS	MONITOR & CONTROL REMOTE & MOBILE SUBSTATIONS	MicroRTU DNP-RTM-MA - Multiple Address model communicates with up to 5 DNP IEDs in the substation	<ul style="list-style-type: none"> Operations Engineering Reliability
FAULT INDICATORS and CURRENT SENSORS	AUTOMATE FAULTED CIRCUIT INDICATOR ALARMS <ul style="list-style-type: none"> Overhead Radio FCIs Pad mount or underground FCIs 	MicroRTU with FCI contact inputs or MicroRTU integrated with radio FCI receivers	<ul style="list-style-type: none"> Operations Planning
UNDERGROUND	<ul style="list-style-type: none"> Network Protector Relay Automation Underground Switches Faulted Circuit Indicators 	DNP-RTM for controls with DNP MicroRTU	<ul style="list-style-type: none"> Operations Planning
ADVANCED METERING	REVENUE & DELIVERY POINT METERS COMMERCIAL & INDUSTRIAL METERS	RTM for Advanced Meters <ul style="list-style-type: none"> ANSI C12.18/19 or DNP3 Protocol Meters Real-time interval data – optional load control outputs 	<ul style="list-style-type: none"> Operations Metering
ARCHIVING	PERIODIC DATA RETRIEVAL (15 minute, hourly, daily, weekly, etc.)	RTM for IEDs and meters	<ul style="list-style-type: none"> Planning