

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

MP 3009

Main processor module

System Overview 23

For a brief description of the modules, see the following tables.

Main Processor Module

Module	Description	Application	Options
1301	1 Processor, 16 modules, receives control signals and issues requests and reports	Two applications	

Communication Module

Module	Description	Options	Ports
1301	1 Processor, Multi-point or ring, addressable, 85.152 Kbps, 100 m, RS-485, RS-232C, RS-422, RS-423, RS-424, RS-425, RS-426, RS-427, RS-428, RS-429, RS-430, RS-431, RS-432, RS-433, RS-434, RS-435, RS-436, RS-437, RS-438, RS-439, RS-440, RS-441, RS-442, RS-443, RS-444, RS-445, RS-446, RS-447, RS-448, RS-449, RS-450, RS-451, RS-452, RS-453, RS-454, RS-455, RS-456, RS-457, RS-458, RS-459, RS-460, RS-461, RS-462, RS-463, RS-464, RS-465, RS-466, RS-467, RS-468, RS-469, RS-470, RS-471, RS-472, RS-473, RS-474, RS-475, RS-476, RS-477, RS-478, RS-479, RS-480, RS-481, RS-482, RS-483, RS-484, RS-485, RS-486, RS-487, RS-488, RS-489, RS-490, RS-491, RS-492, RS-493, RS-494, RS-495, RS-496, RS-497, RS-498, RS-499, RS-500, RS-501, RS-502, RS-503, RS-504, RS-505, RS-506, RS-507, RS-508, RS-509, RS-510, RS-511, RS-512, RS-513, RS-514, RS-515, RS-516, RS-517, RS-518, RS-519, RS-520, RS-521, RS-522, RS-523, RS-524, RS-525, RS-526, RS-527, RS-528, RS-529, RS-530, RS-531, RS-532, RS-533, RS-534, RS-535, RS-536, RS-537, RS-538, RS-539, RS-540, RS-541, RS-542, RS-543, RS-544, RS-545, RS-546, RS-547, RS-548, RS-549, RS-550, RS-551, RS-552, RS-553, RS-554, RS-555, RS-556, RS-557, RS-558, RS-559, RS-560, RS-561, RS-562, RS-563, RS-564, RS-565, RS-566, RS-567, RS-568, RS-569, RS-570, RS-571, RS-572, RS-573, RS-574, RS-575, RS-576, RS-577, RS-578, RS-579, RS-580, RS-581, RS-582, RS-583, RS-584, RS-585, RS-586, RS-587, RS-588, RS-589, RS-590, RS-591, RS-592, RS-593, RS-594, RS-595, RS-596, RS-597, RS-598, RS-599, RS-600, RS-601, RS-602, RS-603, RS-604, RS-605, RS-606, RS-607, RS-608, RS-609, RS-610, RS-611, RS-612, RS-613, RS-614, RS-615, RS-616, RS-617, RS-618, RS-619, RS-620, RS-621, RS-622, RS-623, RS-624, RS-625, RS-626, RS-627, RS-628, RS-629, RS-630, RS-631, RS-632, RS-633, RS-634, RS-635, RS-636, RS-637, RS-638, RS-639, RS-640, RS-641, RS-642, RS-643, RS-644, RS-645, RS-646, RS-647, RS-648, RS-649, RS-650, RS-651, RS-652, RS-653, RS-654, RS-655, RS-656, RS-657, RS-658, RS-659, RS-660, RS-661, RS-662, RS-663, RS-664, RS-665, RS-666, RS-667, RS-668, RS-669, RS-670, RS-671, RS-672, RS-673, RS-674, RS-675, RS-676, RS-677, RS-678, RS-679, RS-680, RS-681, RS-682, RS-683, RS-684, RS-685, RS-686, RS-687, RS-688, RS-689, RS-690, RS-691, RS-692, RS-693, RS-694, RS-695, RS-696, RS-697, RS-698, RS-699, RS-700, RS-701, RS-702, RS-703, RS-704, RS-705, RS-706, RS-707, RS-708, RS-709, RS-710, RS-711, RS-712, RS-713, RS-714, RS-715, RS-716, RS-717, RS-718, RS-719, RS-720, RS-721, RS-722, RS-723, RS-724, RS-725, RS-726, RS-727, RS-728, RS-729, RS-730, RS-731, RS-732, RS-733, RS-734, RS-735, RS-736, RS-737, RS-738, RS-739, RS-740, RS-741, RS-742, RS-743, RS-744, RS-745, RS-746, RS-747, RS-748, RS-749, RS-750, RS-751, RS-752, RS-753, RS-754, RS-755, RS-756, RS-757, RS-758, RS-759, RS-760, RS-761, RS-762, RS-763, RS-764, RS-765, RS-766, RS-767, RS-768, RS-769, RS-770, RS-771, RS-772, RS-773, RS-774, RS-775, RS-776, RS-777, RS-778, RS-779, RS-780, RS-781, RS-782, RS-783, RS-784, RS-785, RS-786, RS-787, RS-788, RS-789, RS-790, RS-791, RS-792, RS-793, RS-794, RS-795, RS-796, RS-797, RS-798, RS-799, RS-800, RS-801, RS-802, RS-803, RS-804, RS-805, RS-806, RS-807, RS-808, RS-809, RS-810, RS-811, RS-812, RS-813, RS-814, RS-815, RS-816, RS-817, RS-818, RS-819, RS-820, RS-821, RS-822, RS-823, RS-824, RS-825, RS-826, RS-827, RS-828, RS-829, RS-830, RS-831, RS-832, RS-833, RS-834, RS-835, RS-836, RS-837, RS-838, RS-839, RS-840, RS-841, RS-842, RS-843, RS-844, RS-845, RS-846, RS-847, RS-848, RS-849, RS-850, RS-851, RS-852, RS-853, RS-854, RS-855, RS-856, RS-857, RS-858, RS-859, RS-860, RS-861, RS-862, RS-863, RS-864, RS-865, RS-866, RS-867, RS-868, RS-869, RS-870, RS-871, RS-872, RS-873, RS-874, RS-875, RS-876, RS-877, RS-878, RS-879, RS-880, RS-881, RS-882, RS-883, RS-884, RS-885, RS-886, RS-887, RS-888, RS-889, RS-890, RS-891, RS-892, RS-893, RS-894, RS-895, RS-896, RS-897, RS-898, RS-899, RS-900, RS-901, RS-902, RS-903, RS-904, RS-905, RS-906, RS-907, RS-908, RS-909, RS-910, RS-911, RS-912, RS-913, RS-914, RS-915, RS-916, RS-917, RS-918, RS-919, RS-920, RS-921, RS-922, RS-923, RS-924, RS-925, RS-926, RS-927, RS-928, RS-929, RS-930, RS-931, RS-932, RS-933, RS-934, RS-935, RS-936, RS-937, RS-938, RS-939, RS-940, RS-941, RS-942, RS-943, RS-944, RS-945, RS-946, RS-947, RS-948, RS-949, RS-950, RS-951, RS-952, RS-953, RS-954, RS-955, RS-956, RS-957, RS-958, RS-959, RS-960, RS-961, RS-962, RS-963, RS-964, RS-965, RS-966, RS-967, RS-968, RS-969, RS-970, RS-971, RS-972, RS-973, RS-974, RS-975, RS-976, RS-977, RS-978, RS-979, RS-980, RS-981, RS-982, RS-983, RS-984, RS-985, RS-986, RS-987, RS-988, RS-989, RS-990, RS-991, RS-992, RS-993, RS-994, RS-995, RS-996, RS-997, RS-998, RS-999, RS-1000, RS-1001, RS-1002, RS-1003, RS-1004, RS-1005, RS-1006, RS-1007, RS-1008, RS-1009, RS-1010, RS-1011, RS-1012, RS-1013, RS-1014, RS-1015, RS-1016, RS-1017, RS-1018, RS-1019, RS-1020, RS-1021, RS-1022, RS-1023, RS-1024, RS-1025, RS-	One application	

Analogy Input Module

Module	Description	Options	Ports
1301	1 Processor, 16 channels, 40,000 range		16

Analogy Output Module

Module	Description	Options	Ports
1301	1 Processor, 16 channels, 40,000 range		16
1302	1 Processor, 16 channels, 40,000 range		16

Digital Input Module

Module	Description	Options	Ports
1301	24 V DC, 16 channels		16

Chapter 3 System Description

PRODUCT	MP 3009
FAMILY	Triconex safety system
FUNCTION	Main processor module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Triconex documentation. This guide supplements the complete manufacturer manual and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

Module Type	Tricon main processor module
Processor Role	Safety logic execution engine
Controller Architecture	Triple modular redundant processing
Backplane Interface	Triplicated controller communication bus
Program Environment	TriStation 1131 engineering suite
Operating Supply	Chassis-provided logic power

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PREPARATION AND CONNECTION

- Confirm the complete MP 3009 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

For a brief description of the modules, see the following tables.

Main Processor Module

Model	Description	Points
3101	14-maximum I/O modules, executes control application and votes on inputs and outputs	Not applicable

Communication Module

Model	Description	Points
3201	Interfaces, Modbus master or slave, selectable RS-232/485 serial ports, TriStation, Triconex Peer-to-Peer, TSAA, and TCP-IP/UDP-IP	Not applicable

Analog Input Module

Model	Description	Points
3351	4–20 mA, commoned, 6% over-range	32

Analog Output Module

Model	Description	Points
3481	4–20 mA, commoned, 6% over-range	4
3482	2 @ 4–20 mA, 2 @ 4–40 mA, commoned, 6% over-range	4

Digital Input Module

Model	Description	Points
3301	24 V DC, commoned	32

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COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

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CONTROLLED DOCUMENT

Official source	Trident Planning Installation Guide
Product record	MP 3009
Manufacturer	Triconex
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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